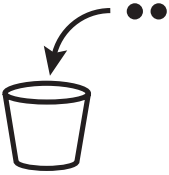
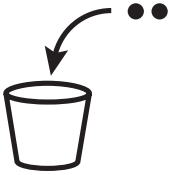
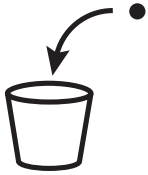
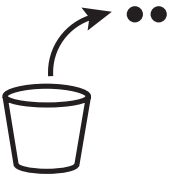

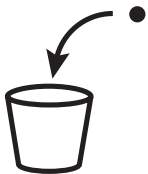
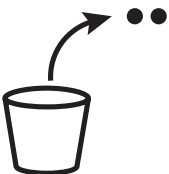


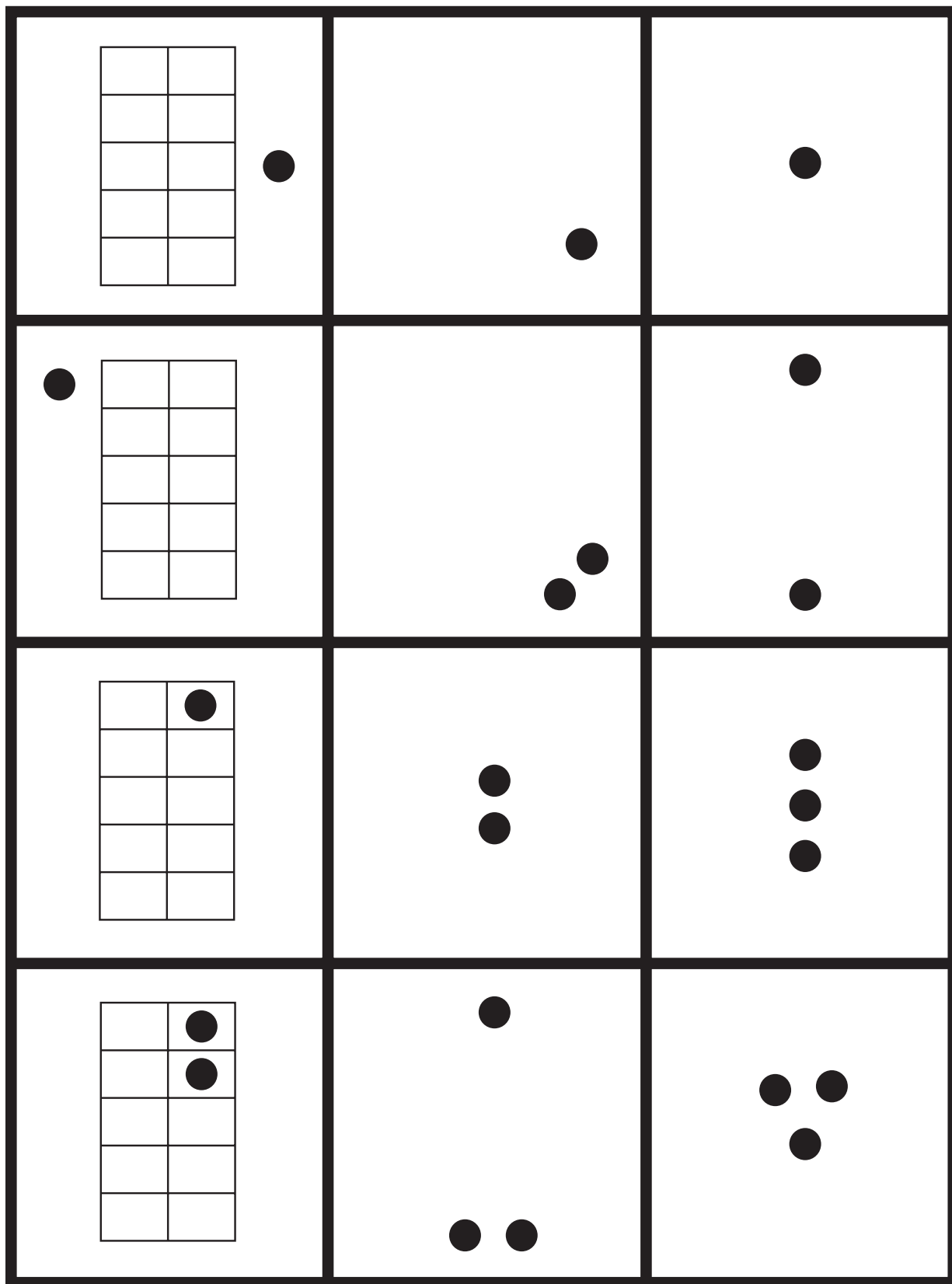


|  |  |   |
|--|--|---|
| <p>2 more</p>  <p>plus 2</p>    | <p>2 more</p>  <p>plus 2</p>    | <p>1 more</p>  <p>plus 1</p> |
| <p>2 less</p>  <p>minus 2</p>   | <p>1 less</p>  <p>minus 1</p>   | <p>1 more</p>  <p>plus 1</p> |
| <p>2 less</p>  <p>minus 2</p> | <p>1 less</p>  <p>minus 1</p> | <p>zero</p>                |

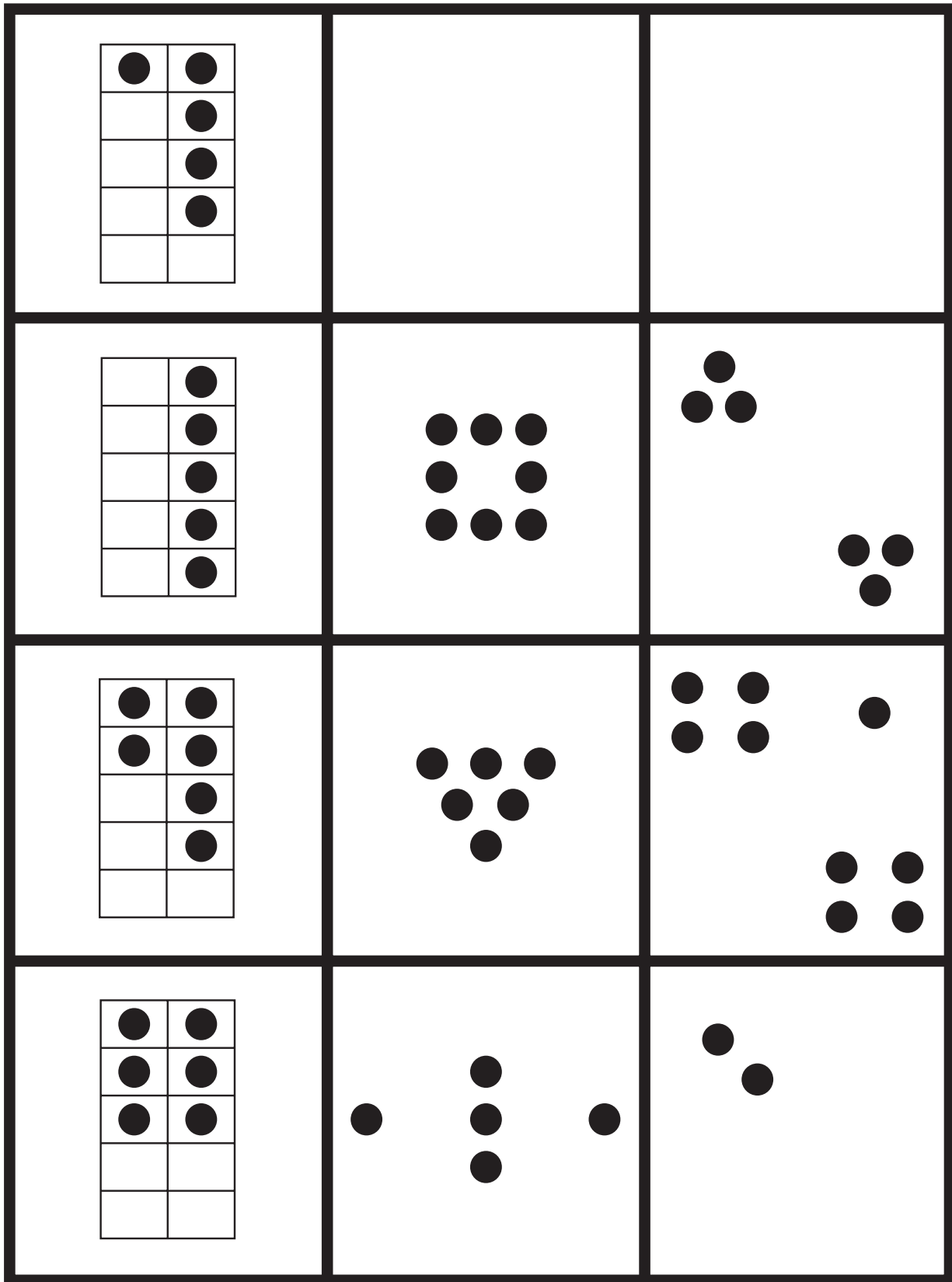
## *More-or-less cards—1*

|   |   |    |   |
|---|---|----|---|
| 0 | 1 | 2  | 3 |
| 4 | 5 | 6  | 7 |
| 8 | 9 | 10 |   |

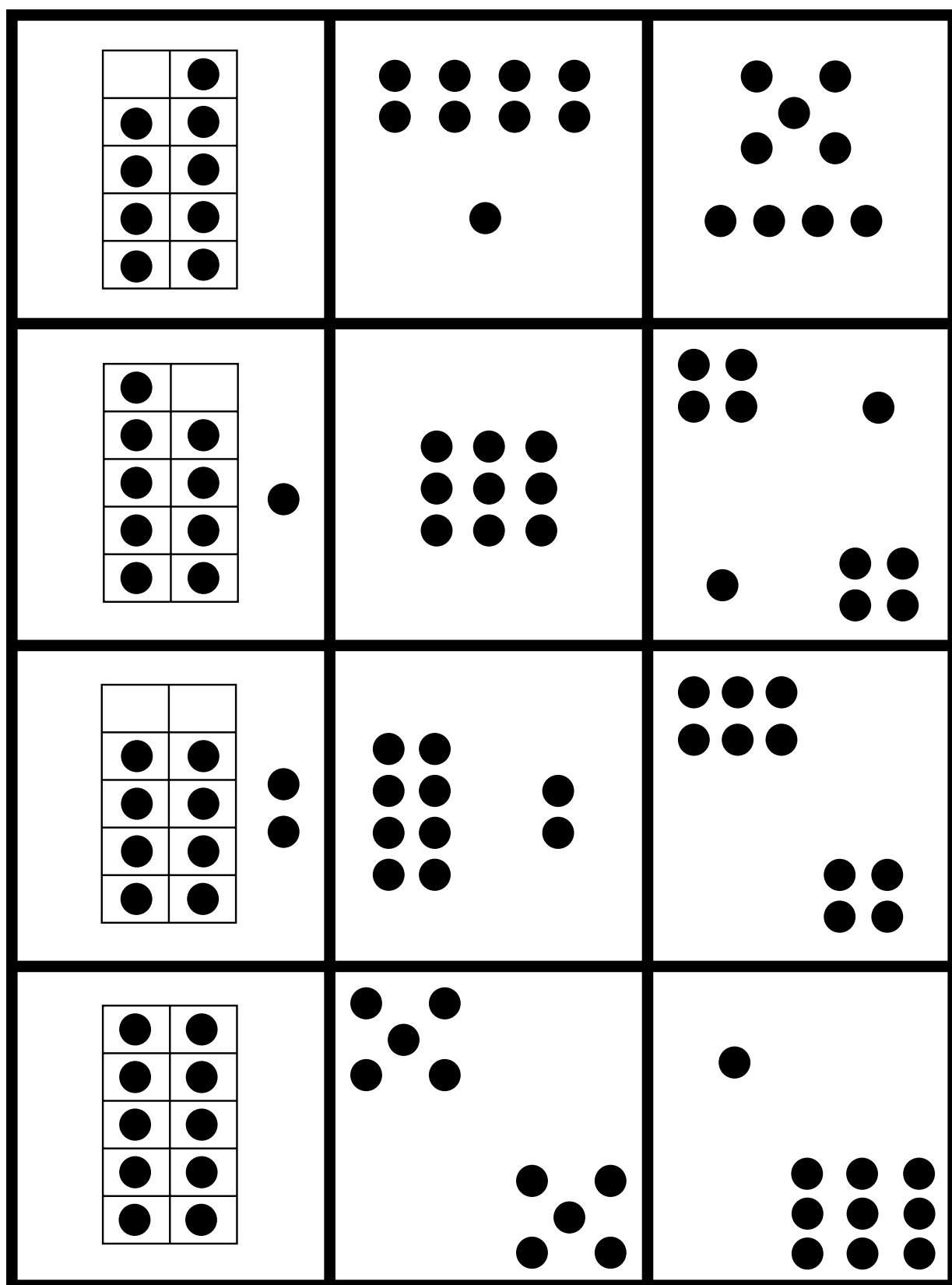
*Number cards—2*



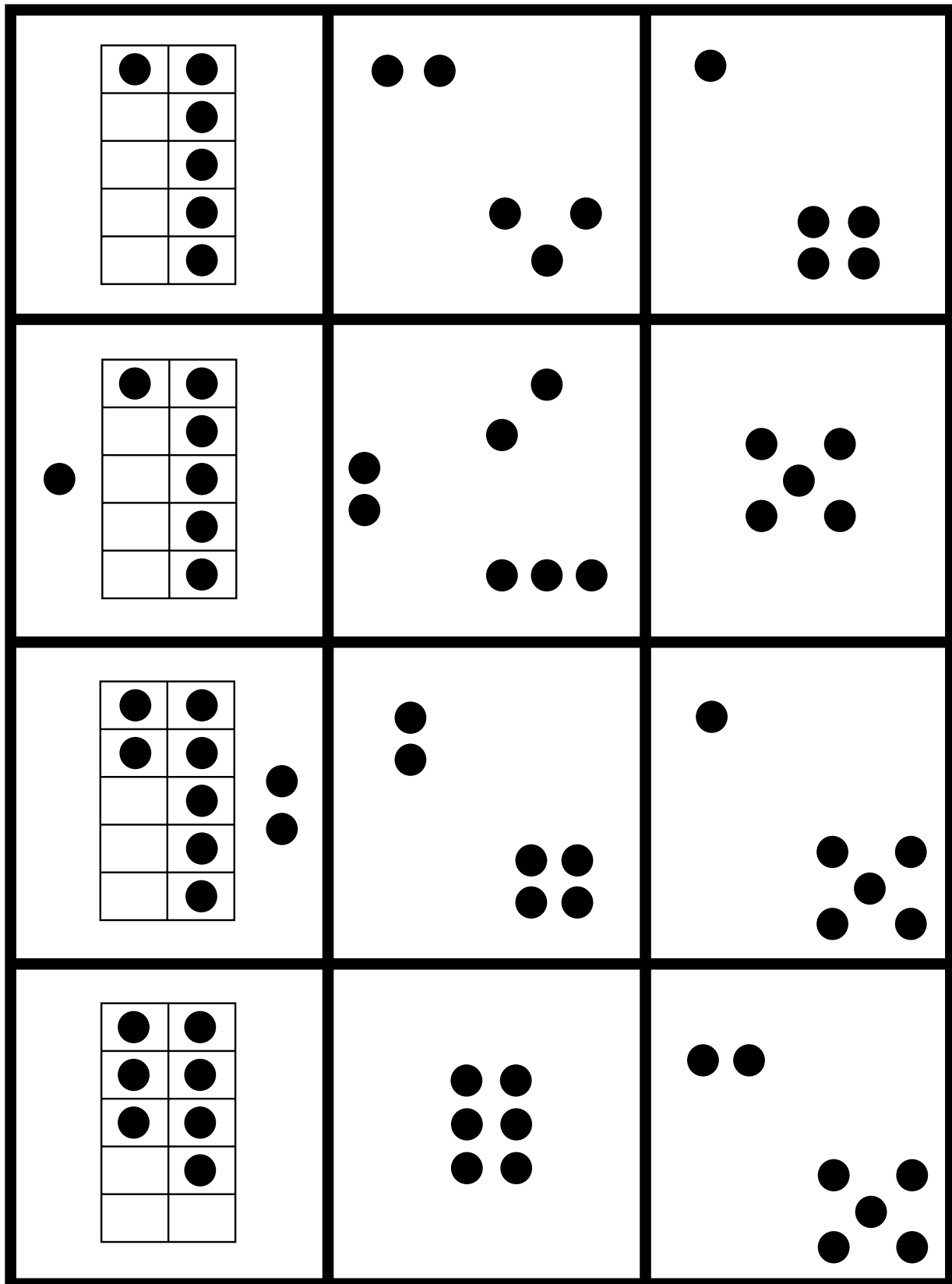
*Dot cards—3*



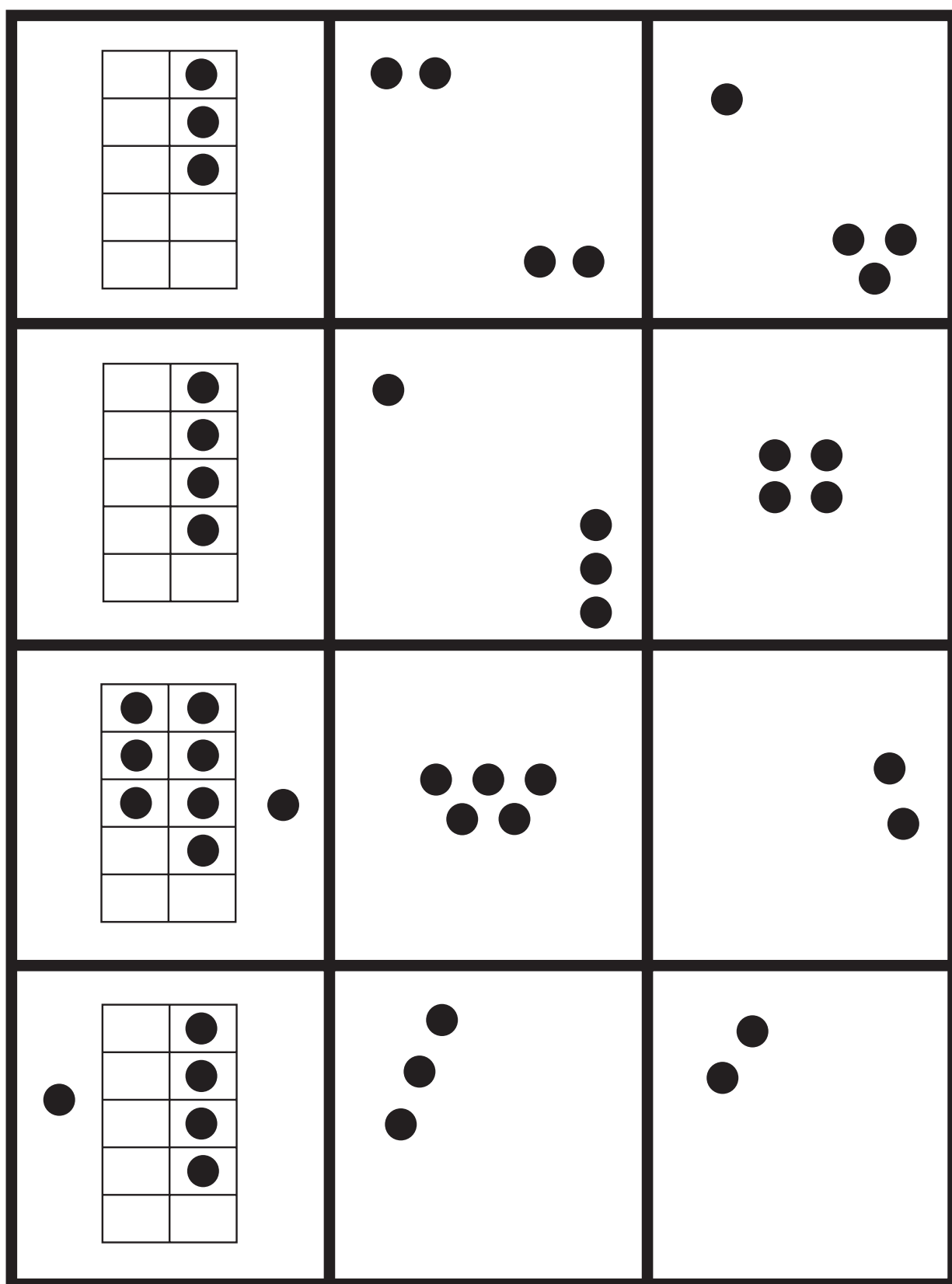
## *Dot cards—4*



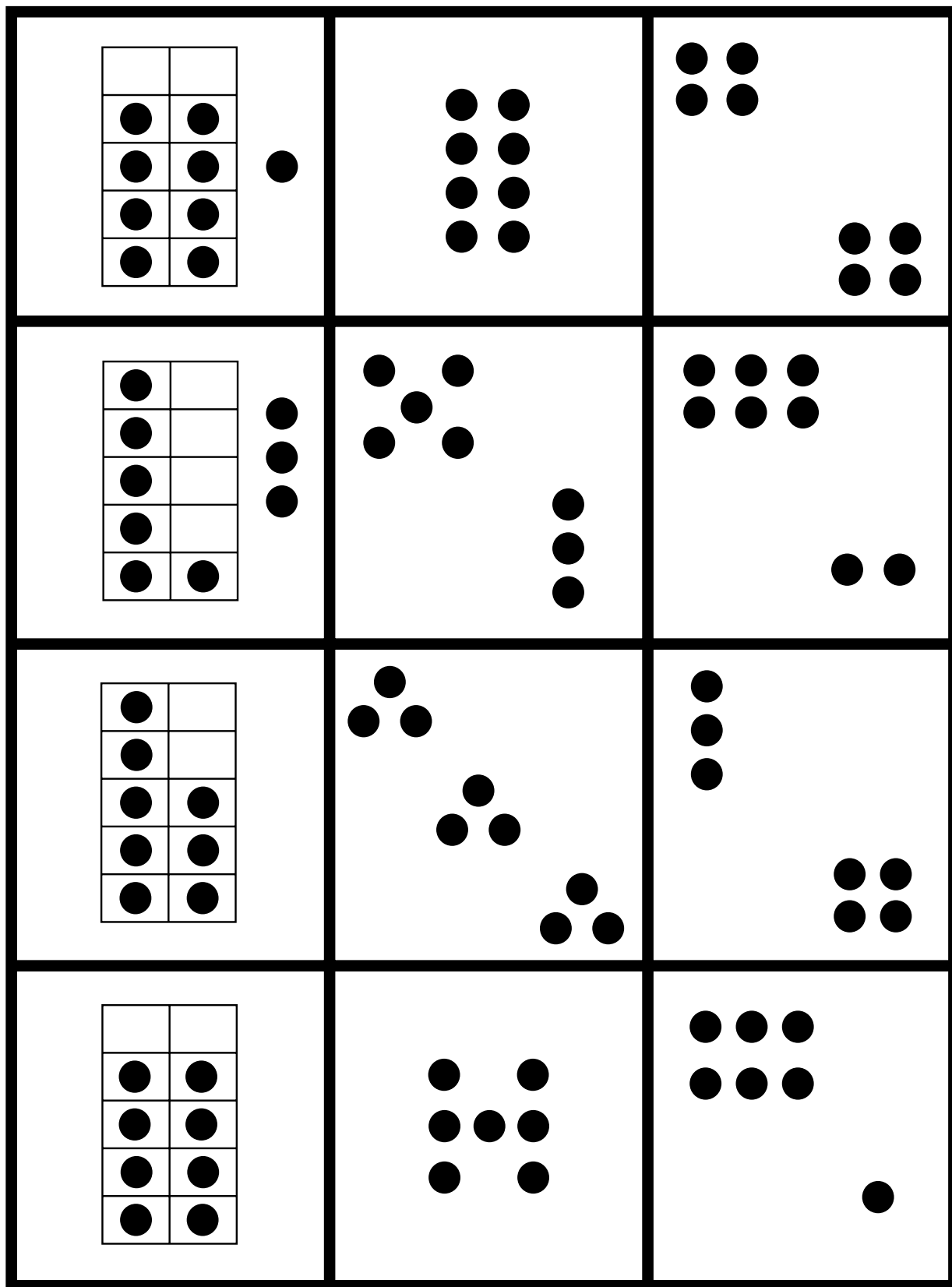
## Dot cards—5



## Dot cards—6

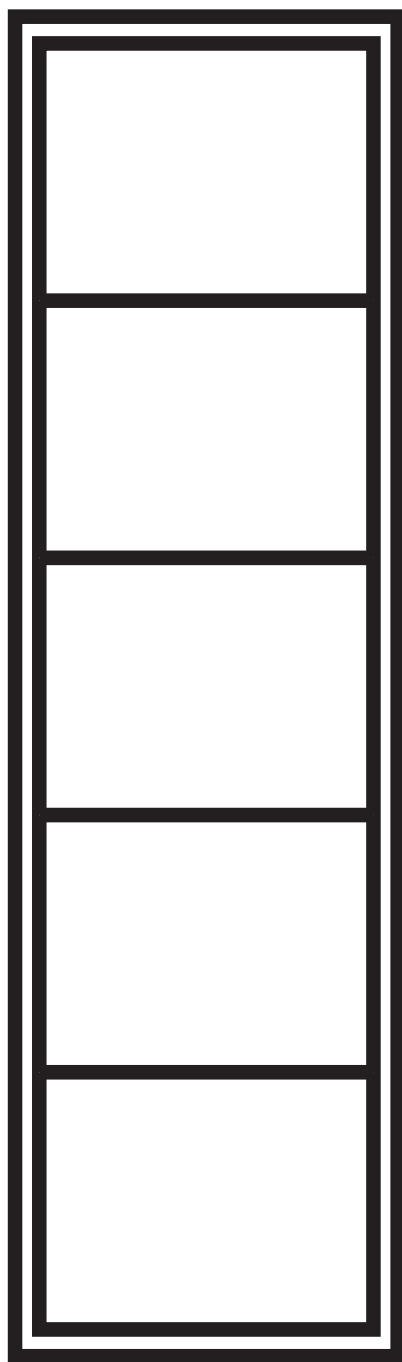


*Dot cards—7*

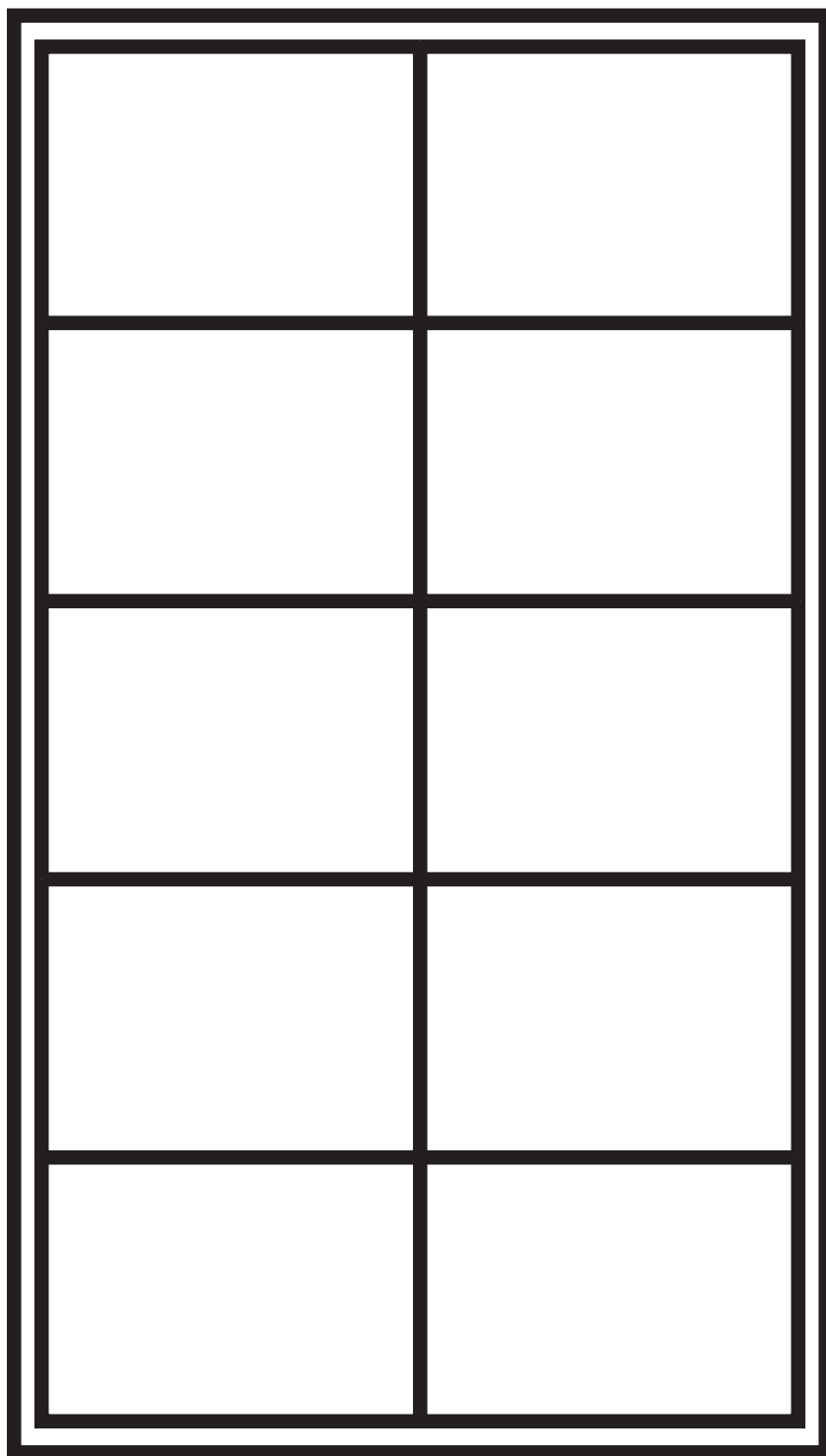


*Dot cards—8*





*Five-frame—9*

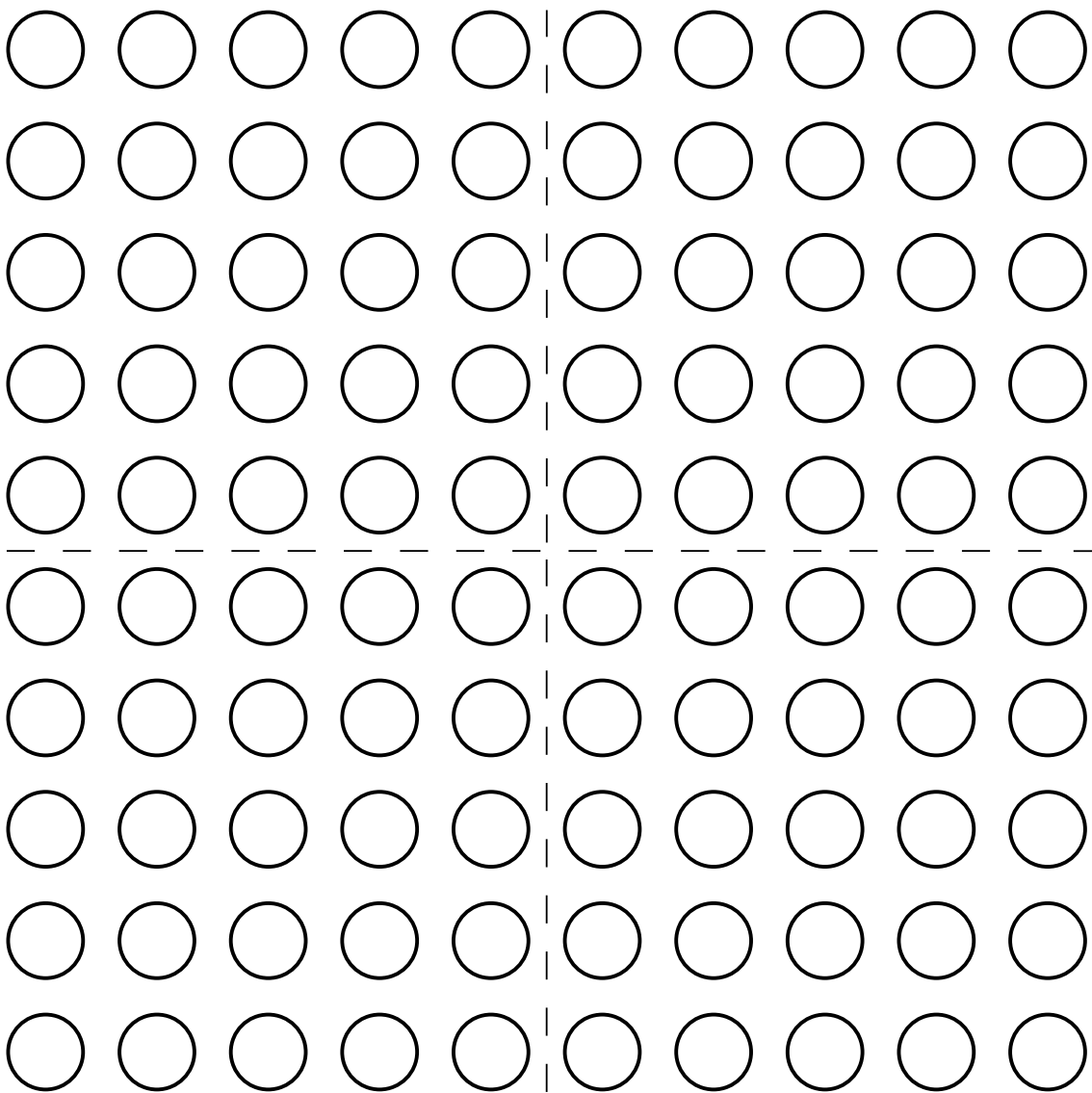


*Ten-frame—10*

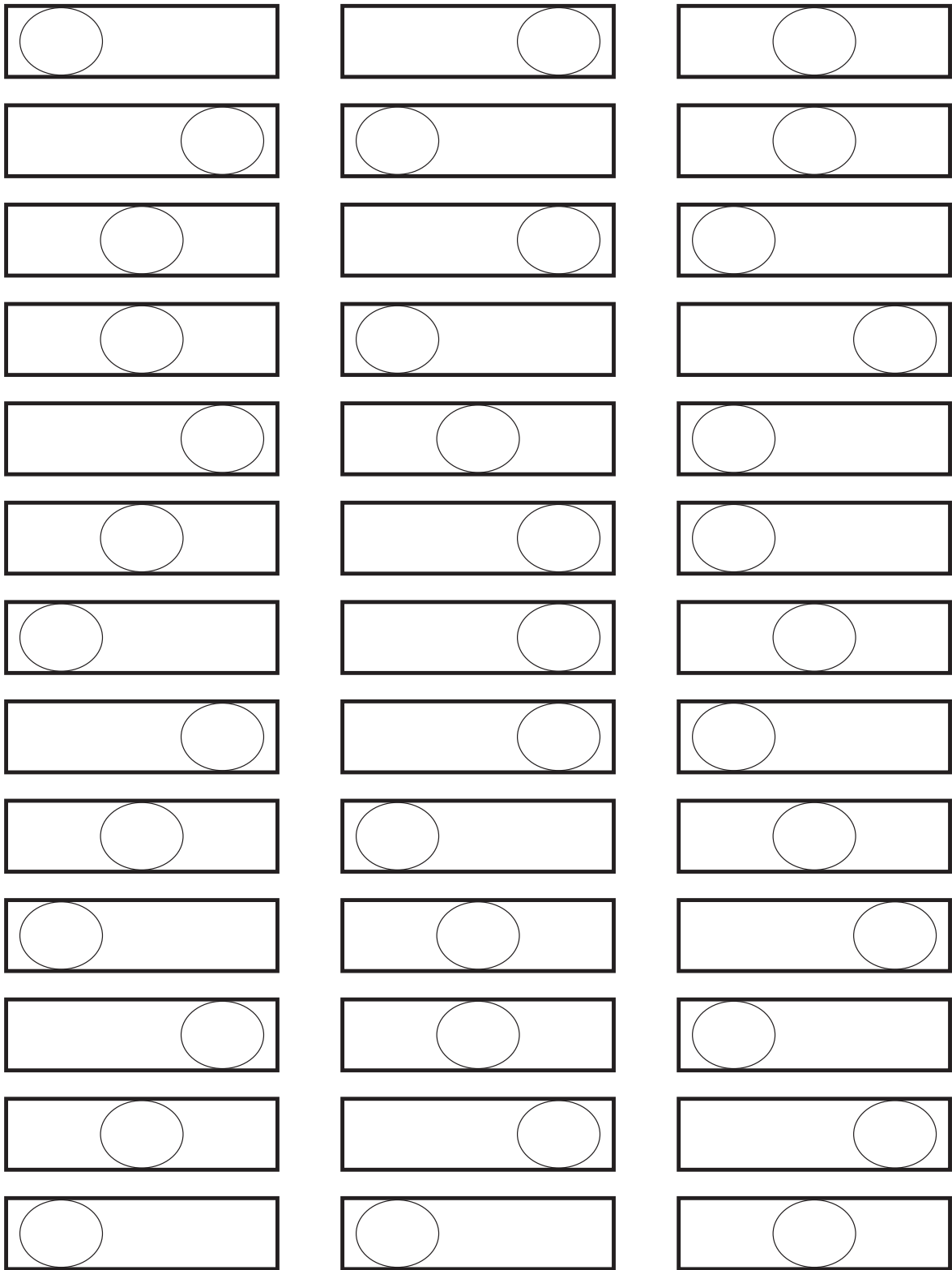
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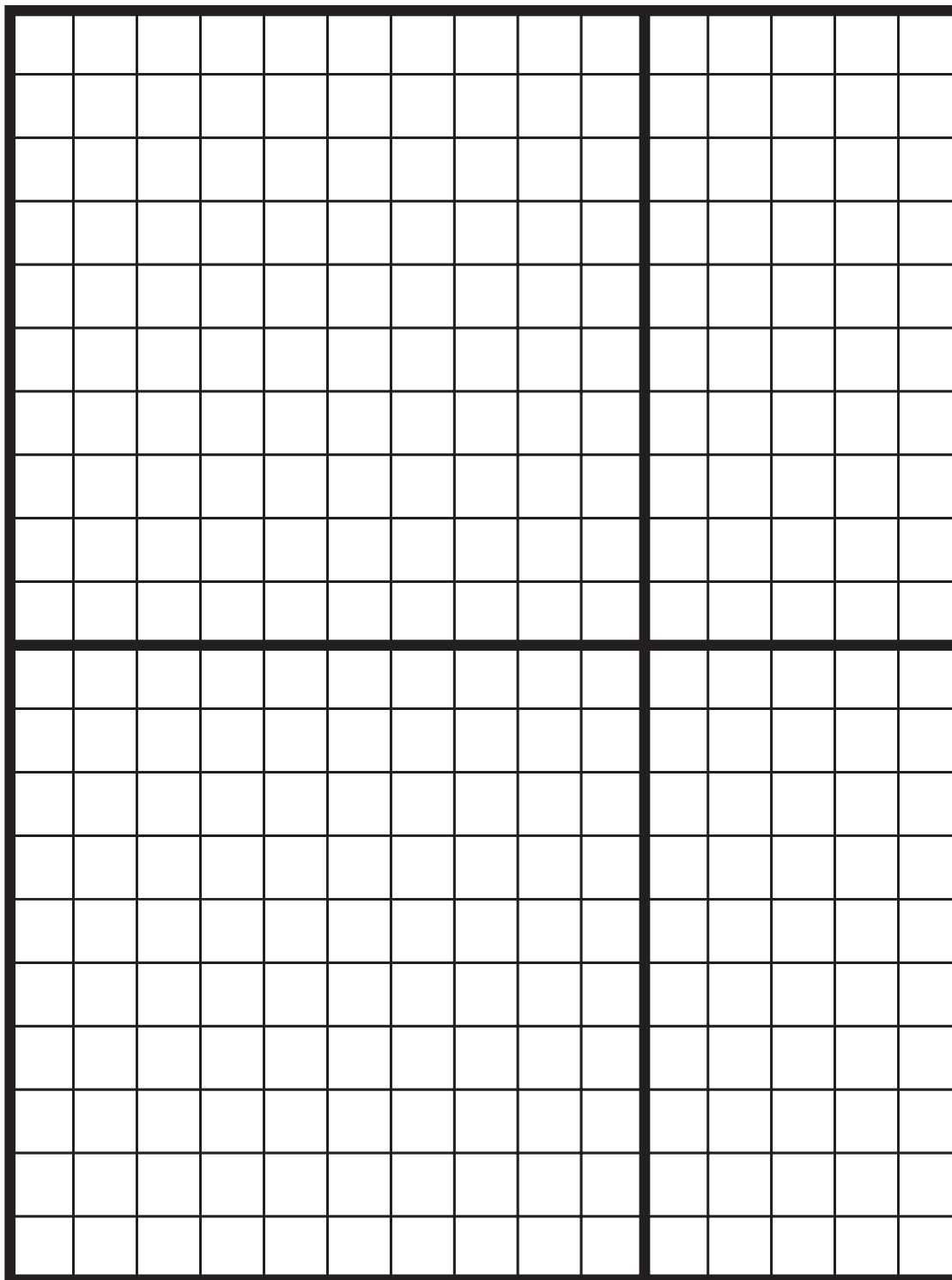
*Double ten-frame—1 1*



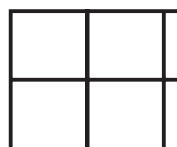
*10 × 10 multiplication array—12*



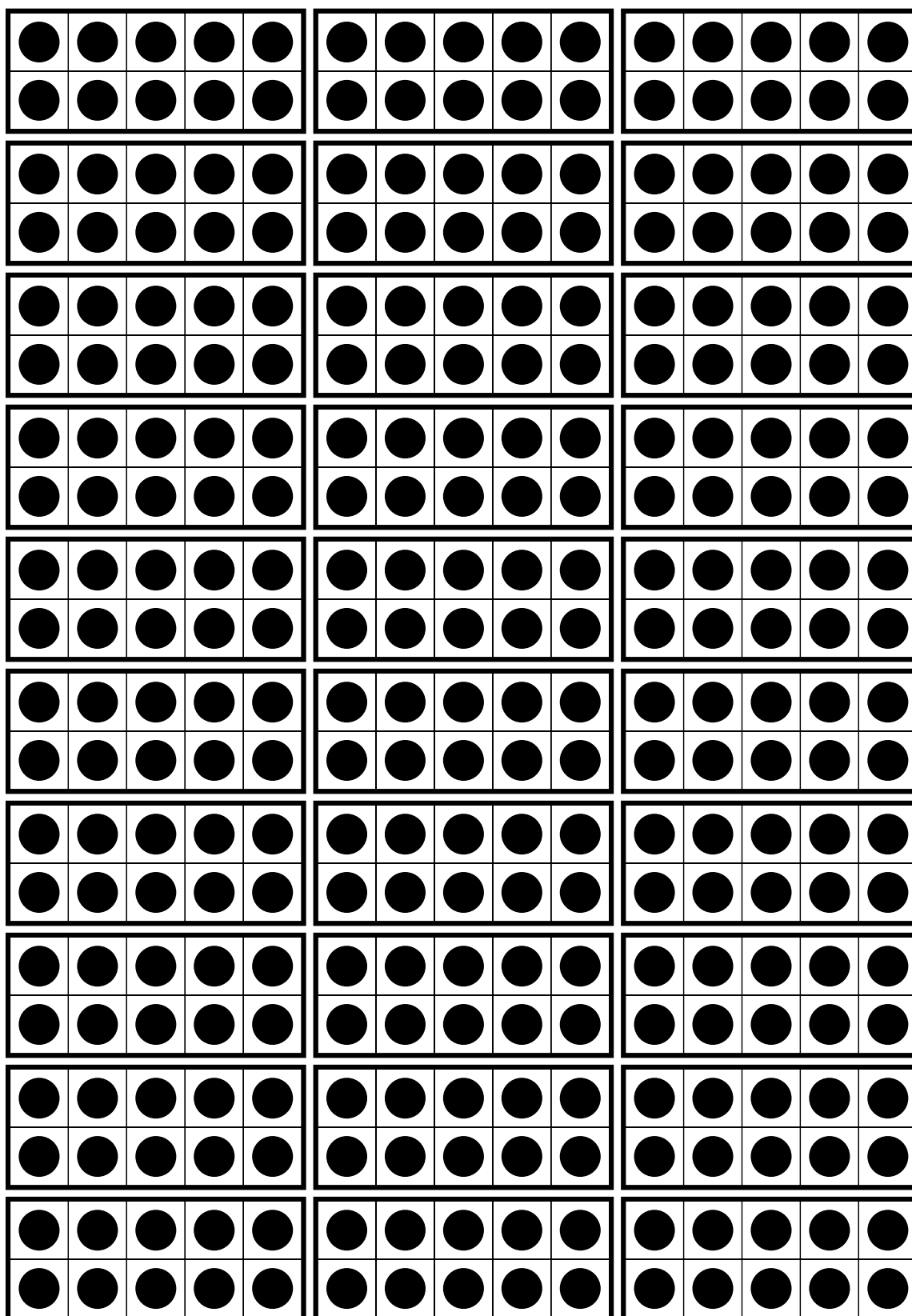
## *Missing-part worksheet—13*



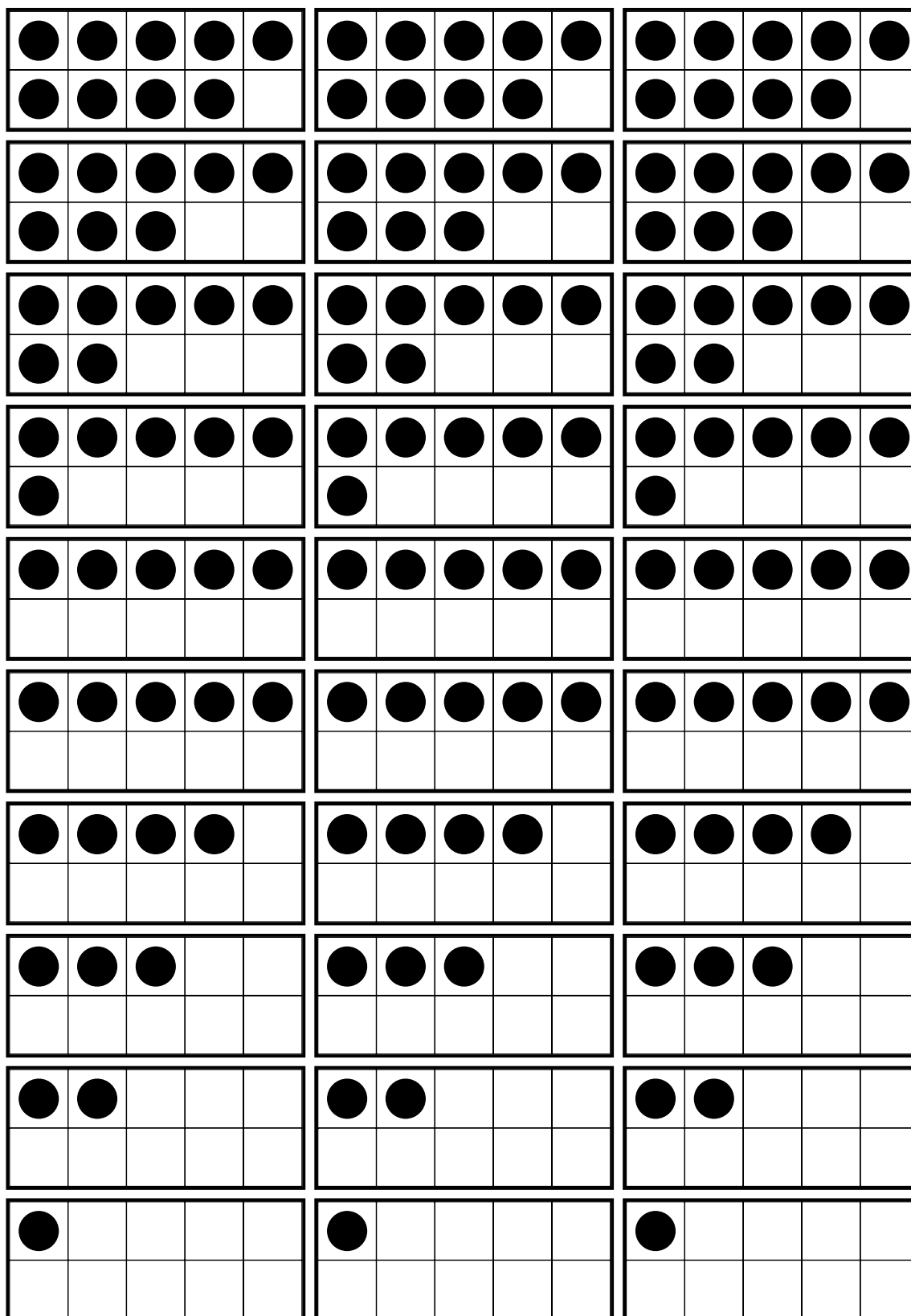
1. Make two copies of this page. Cut out the grid from each copy.
2. Overlap the two grids, and tape onto a blank sheet to form a 20-by-25-cm grid with 4 complete hundreds squares and 2 rows of 5 tens each.
3. Use this as a master to make copies on card stock.



## *Base-ten materials—14*



## *Little ten-frames—15*



## *Little ten-frames—16*



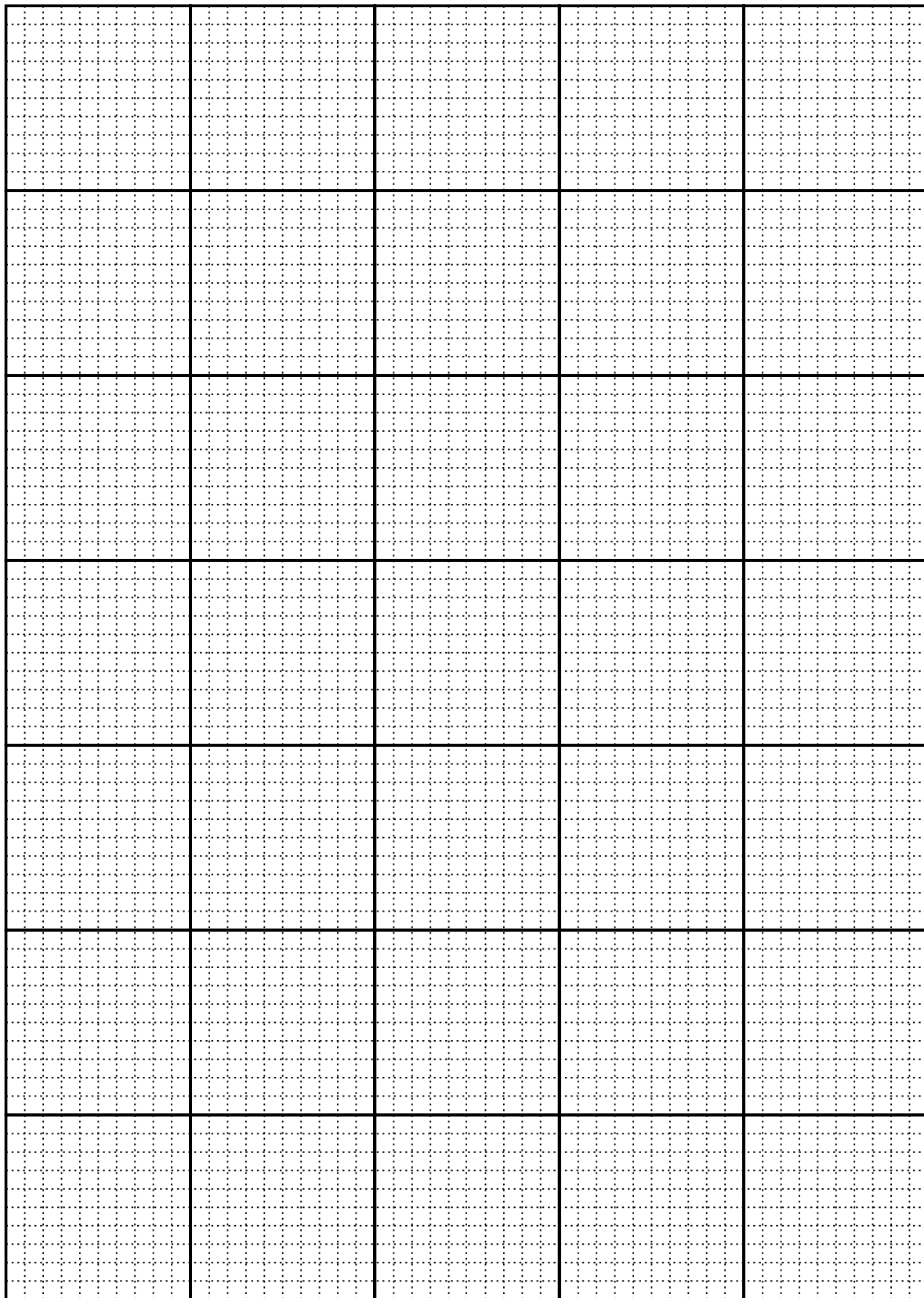
**ONES**

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**TENS**

*Place-value mat (with ten-frames)—17*



## *Base-ten grid paper—18*

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## *Addition and subtraction recording charts—19*

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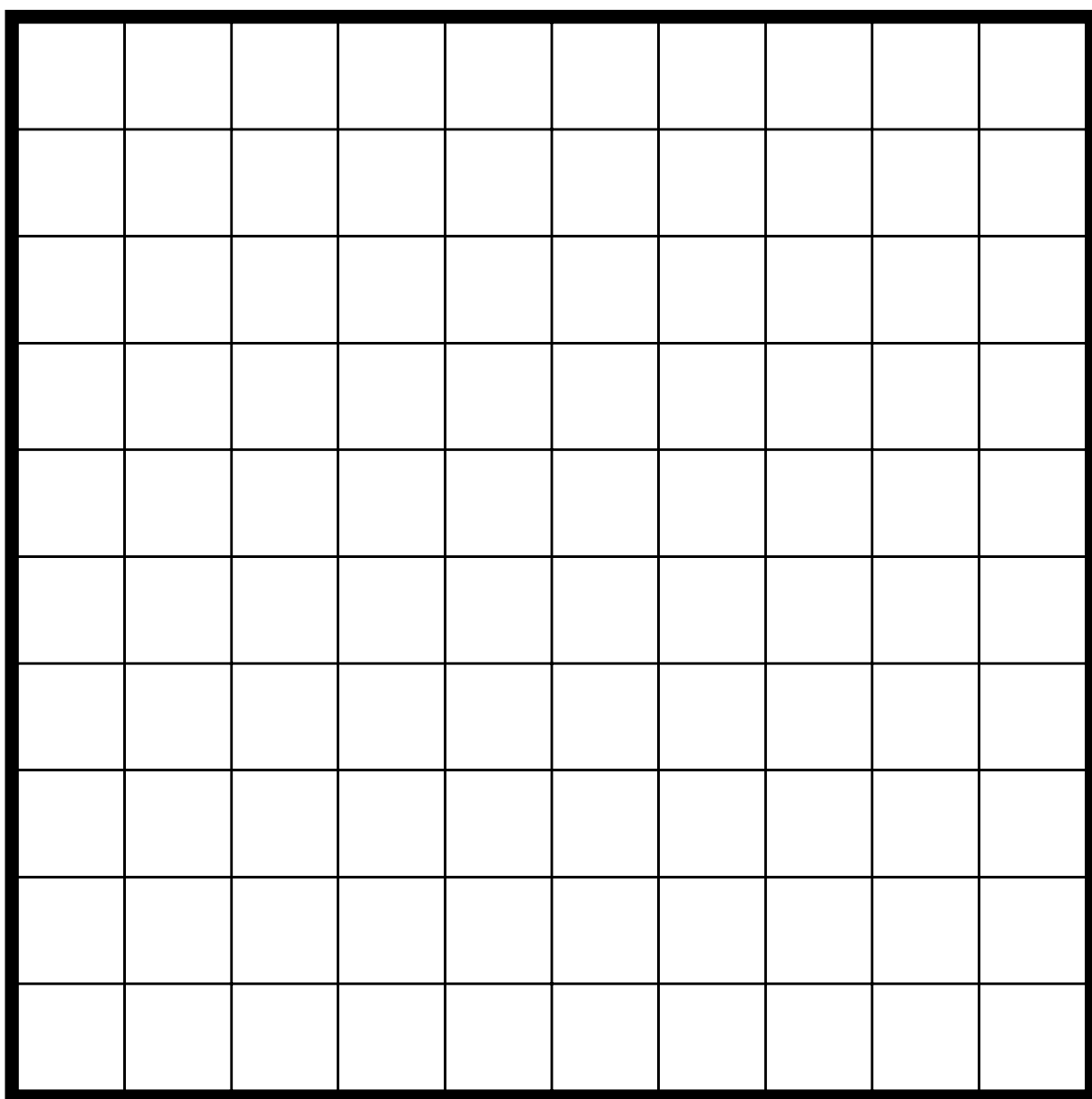
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## Multiplication and division recording charts—20



*Blank hundreds  
chart (10 × 10 square)—21*

|    |    |    |    |    |    |    |    |    |     |
|----|----|----|----|----|----|----|----|----|-----|
| 1  | 2  | 3  | 4  | 5  | 6  | 7  | 8  | 9  | 10  |
| 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20  |
| 21 | 22 | 23 | 24 | 25 | 26 | 27 | 28 | 29 | 30  |
| 31 | 32 | 33 | 34 | 35 | 36 | 37 | 38 | 39 | 40  |
| 41 | 42 | 43 | 44 | 45 | 46 | 47 | 48 | 49 | 50  |
| 51 | 52 | 53 | 54 | 55 | 56 | 57 | 58 | 59 | 60  |
| 61 | 62 | 63 | 64 | 65 | 66 | 67 | 68 | 69 | 70  |
| 71 | 72 | 73 | 74 | 75 | 76 | 77 | 78 | 79 | 80  |
| 81 | 82 | 83 | 84 | 85 | 86 | 87 | 88 | 89 | 90  |
| 91 | 92 | 93 | 94 | 95 | 96 | 97 | 98 | 99 | 100 |

*Hundreds chart—22*

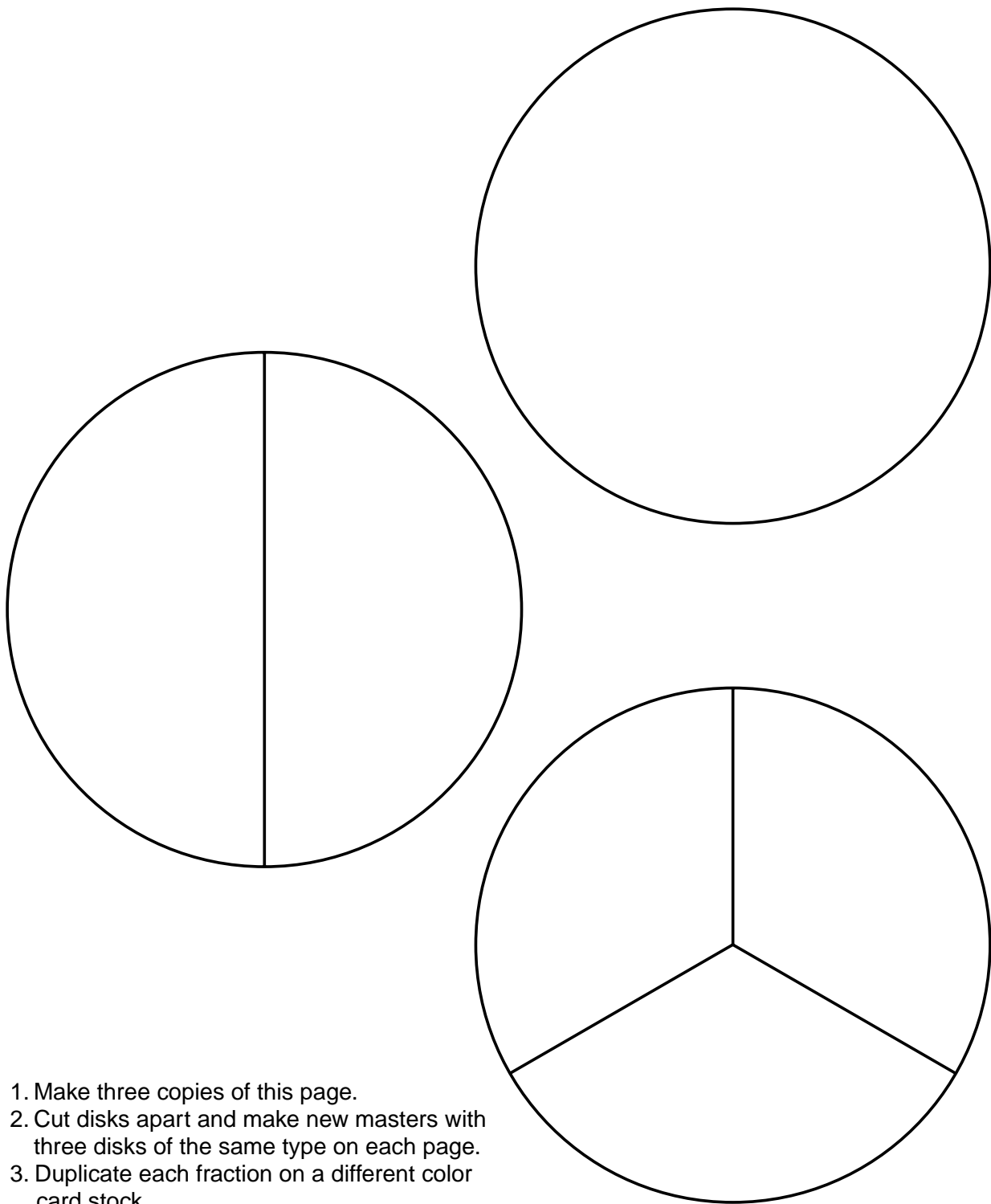
|    |    |    |    |    |    |    |    |    |     |
|----|----|----|----|----|----|----|----|----|-----|
| 1  | 2  | 3  | 4  | 5  | 6  | 7  | 8  | 9  | 10  |
| 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20  |
| 21 | 22 | 23 | 24 | 25 | 26 | 27 | 28 | 29 | 30  |
| 31 | 32 | 33 | 34 | 35 | 36 | 37 | 38 | 39 | 40  |
| 41 | 42 | 43 | 44 | 45 | 46 | 47 | 48 | 49 | 50  |
| 51 | 52 | 53 | 54 | 55 | 56 | 57 | 58 | 59 | 60  |
| 61 | 62 | 63 | 64 | 65 | 66 | 67 | 68 | 69 | 70  |
| 71 | 72 | 73 | 74 | 75 | 76 | 77 | 78 | 79 | 80  |
| 81 | 82 | 83 | 84 | 85 | 86 | 87 | 88 | 89 | 90  |
| 91 | 92 | 93 | 94 | 95 | 96 | 97 | 98 | 99 | 100 |

|    |    |    |    |    |    |    |    |    |     |
|----|----|----|----|----|----|----|----|----|-----|
| 1  | 2  | 3  | 4  | 5  | 6  | 7  | 8  | 9  | 10  |
| 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20  |
| 21 | 22 | 23 | 24 | 25 | 26 | 27 | 28 | 29 | 30  |
| 31 | 32 | 33 | 34 | 35 | 36 | 37 | 38 | 39 | 40  |
| 41 | 42 | 43 | 44 | 45 | 46 | 47 | 48 | 49 | 50  |
| 51 | 52 | 53 | 54 | 55 | 56 | 57 | 58 | 59 | 60  |
| 61 | 62 | 63 | 64 | 65 | 66 | 67 | 68 | 69 | 70  |
| 71 | 72 | 73 | 74 | 75 | 76 | 77 | 78 | 79 | 80  |
| 81 | 82 | 83 | 84 | 85 | 86 | 87 | 88 | 89 | 90  |
| 91 | 92 | 93 | 94 | 95 | 96 | 97 | 98 | 99 | 100 |

|    |    |    |    |    |    |    |    |    |     |
|----|----|----|----|----|----|----|----|----|-----|
| 1  | 2  | 3  | 4  | 5  | 6  | 7  | 8  | 9  | 10  |
| 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20  |
| 21 | 22 | 23 | 24 | 25 | 26 | 27 | 28 | 29 | 30  |
| 31 | 32 | 33 | 34 | 35 | 36 | 37 | 38 | 39 | 40  |
| 41 | 42 | 43 | 44 | 45 | 46 | 47 | 48 | 49 | 50  |
| 51 | 52 | 53 | 54 | 55 | 56 | 57 | 58 | 59 | 60  |
| 61 | 62 | 63 | 64 | 65 | 66 | 67 | 68 | 69 | 70  |
| 71 | 72 | 73 | 74 | 75 | 76 | 77 | 78 | 79 | 80  |
| 81 | 82 | 83 | 84 | 85 | 86 | 87 | 88 | 89 | 90  |
| 91 | 92 | 93 | 94 | 95 | 96 | 97 | 98 | 99 | 100 |

|    |    |    |    |    |    |    |    |    |     |
|----|----|----|----|----|----|----|----|----|-----|
| 1  | 2  | 3  | 4  | 5  | 6  | 7  | 8  | 9  | 10  |
| 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20  |
| 21 | 22 | 23 | 24 | 25 | 26 | 27 | 28 | 29 | 30  |
| 31 | 32 | 33 | 34 | 35 | 36 | 37 | 38 | 39 | 40  |
| 41 | 42 | 43 | 44 | 45 | 46 | 47 | 48 | 49 | 50  |
| 51 | 52 | 53 | 54 | 55 | 56 | 57 | 58 | 59 | 60  |
| 61 | 62 | 63 | 64 | 65 | 66 | 67 | 68 | 69 | 70  |
| 71 | 72 | 73 | 74 | 75 | 76 | 77 | 78 | 79 | 80  |
| 81 | 82 | 83 | 84 | 85 | 86 | 87 | 88 | 89 | 90  |
| 91 | 92 | 93 | 94 | 95 | 96 | 97 | 98 | 99 | 100 |

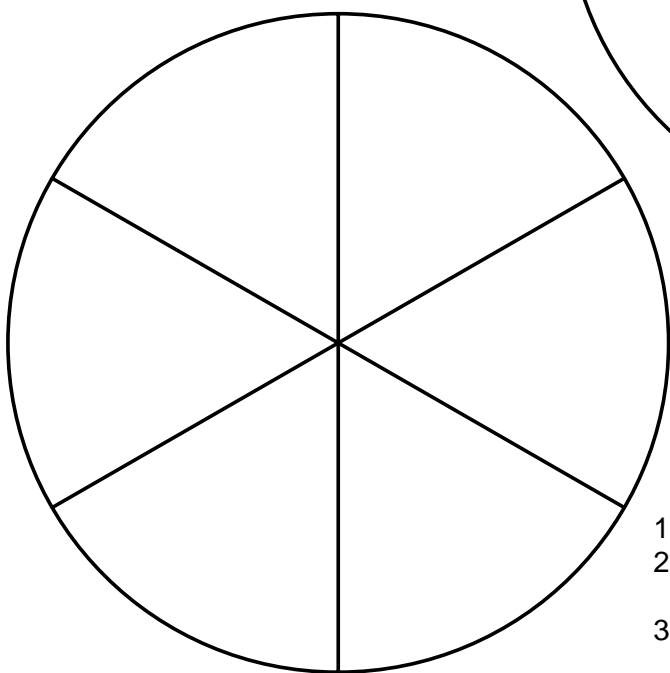
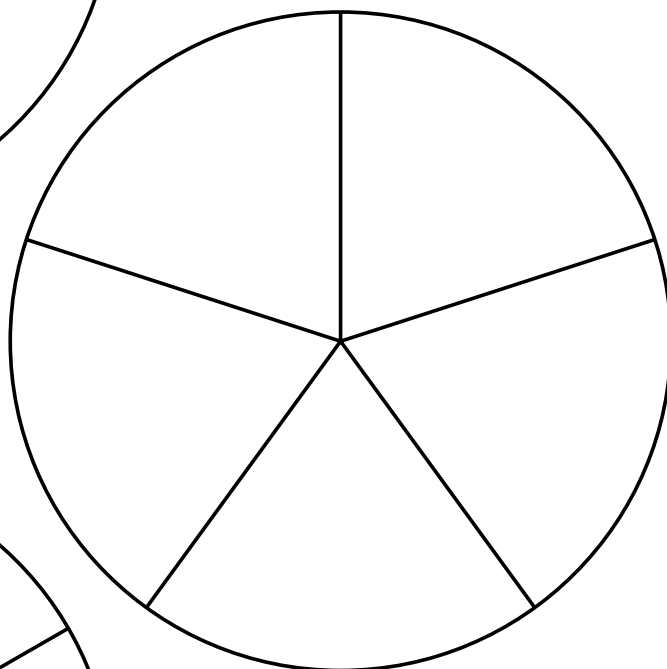
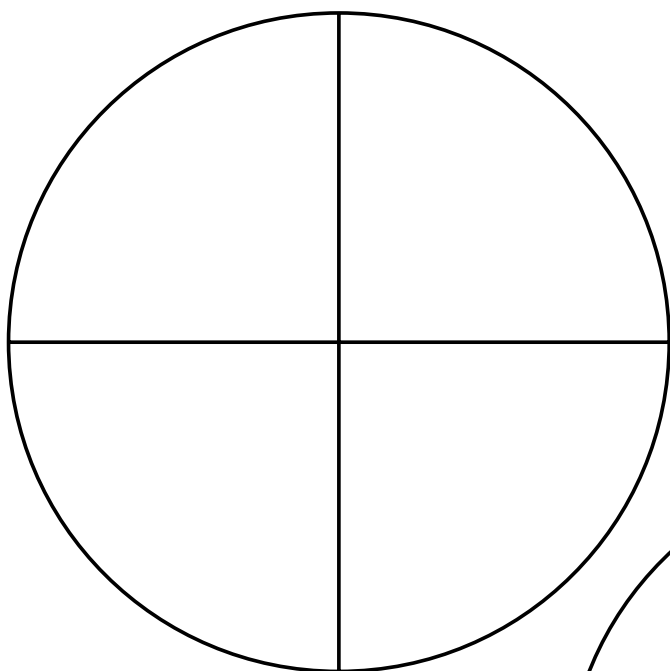
## *Four small hundreds charts—23*



1. Make three copies of this page.
2. Cut disks apart and make new masters with three disks of the same type on each page.
3. Duplicate each fraction on a different color card stock.

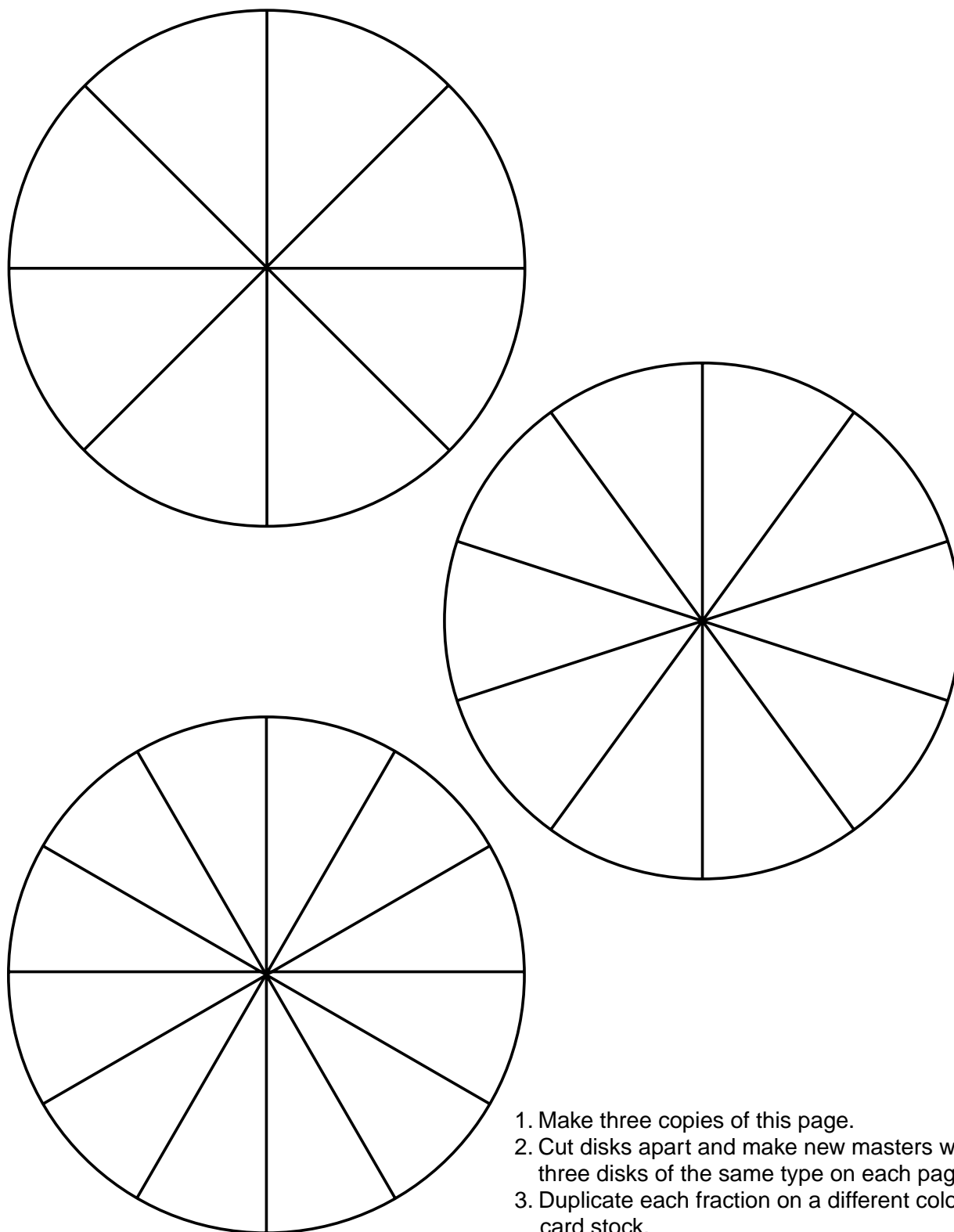
## *Circular fraction pieces—24*





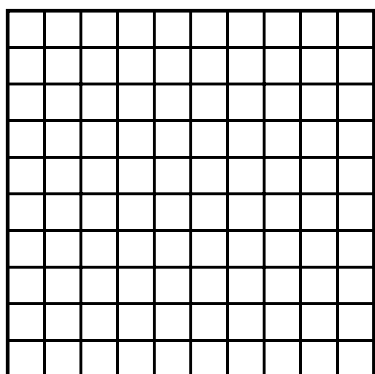
1. Make three copies of this page.
2. Cut disks apart and make new masters with three disks of the same type on each page.
3. Duplicate each fraction on a different color card stock.

## *Circular fraction pieces—25*



1. Make three copies of this page.
2. Cut disks apart and make new masters with three disks of the same type on each page.
3. Duplicate each fraction on a different color card stock.

## *Circular fraction pieces—26*

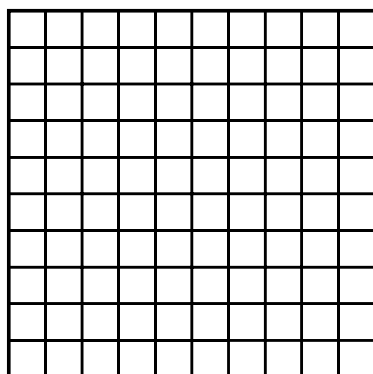


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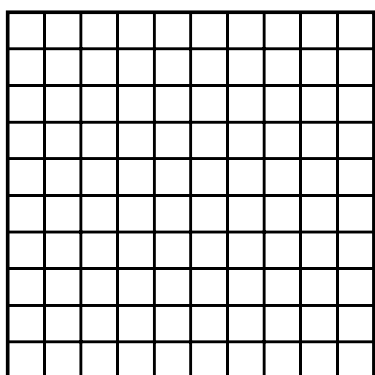


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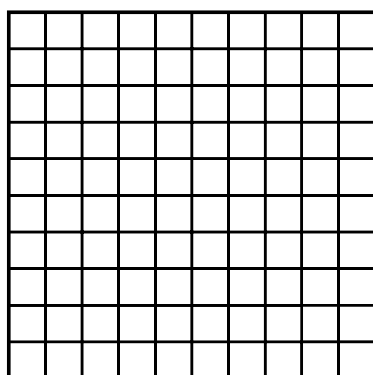


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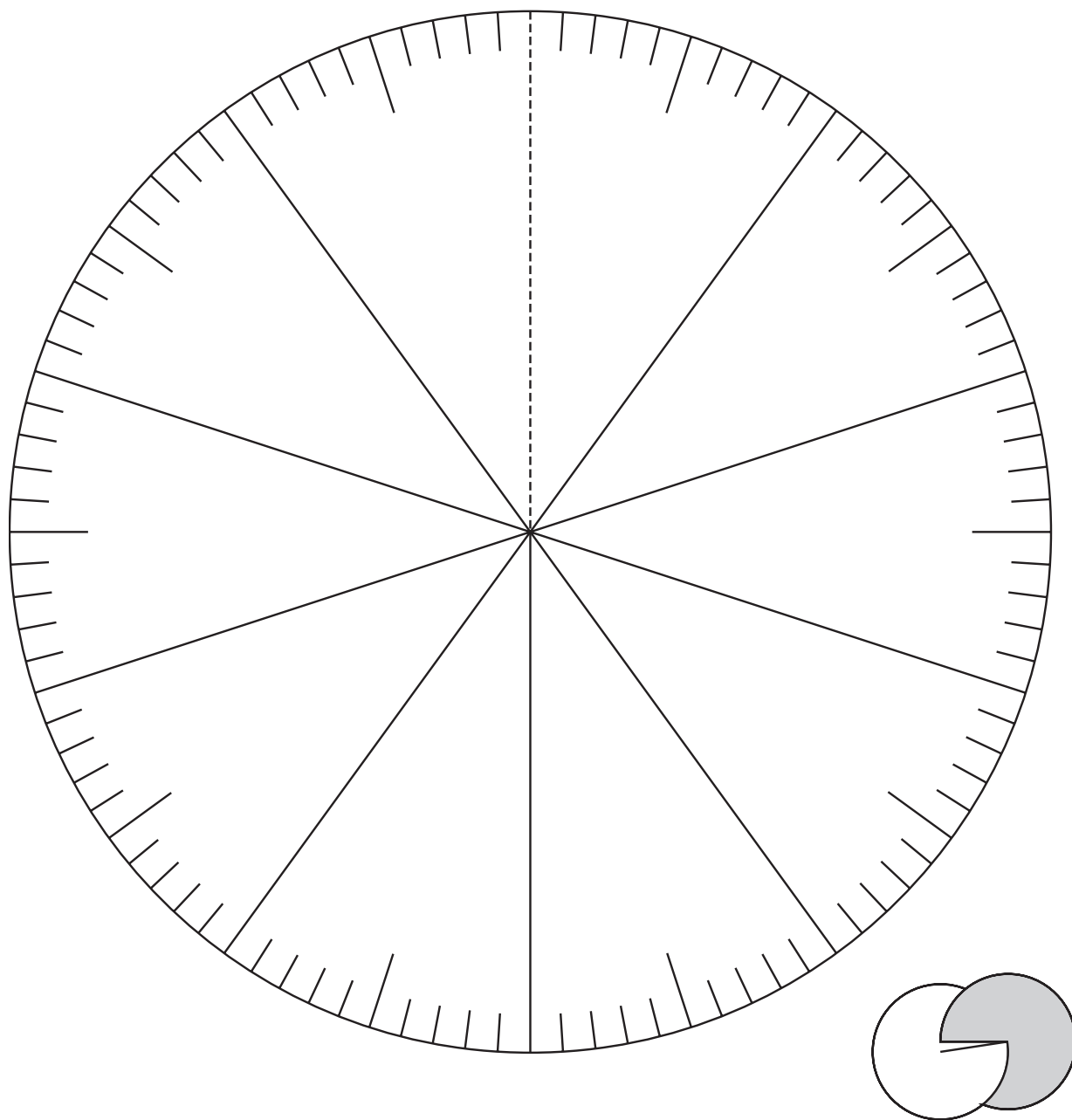
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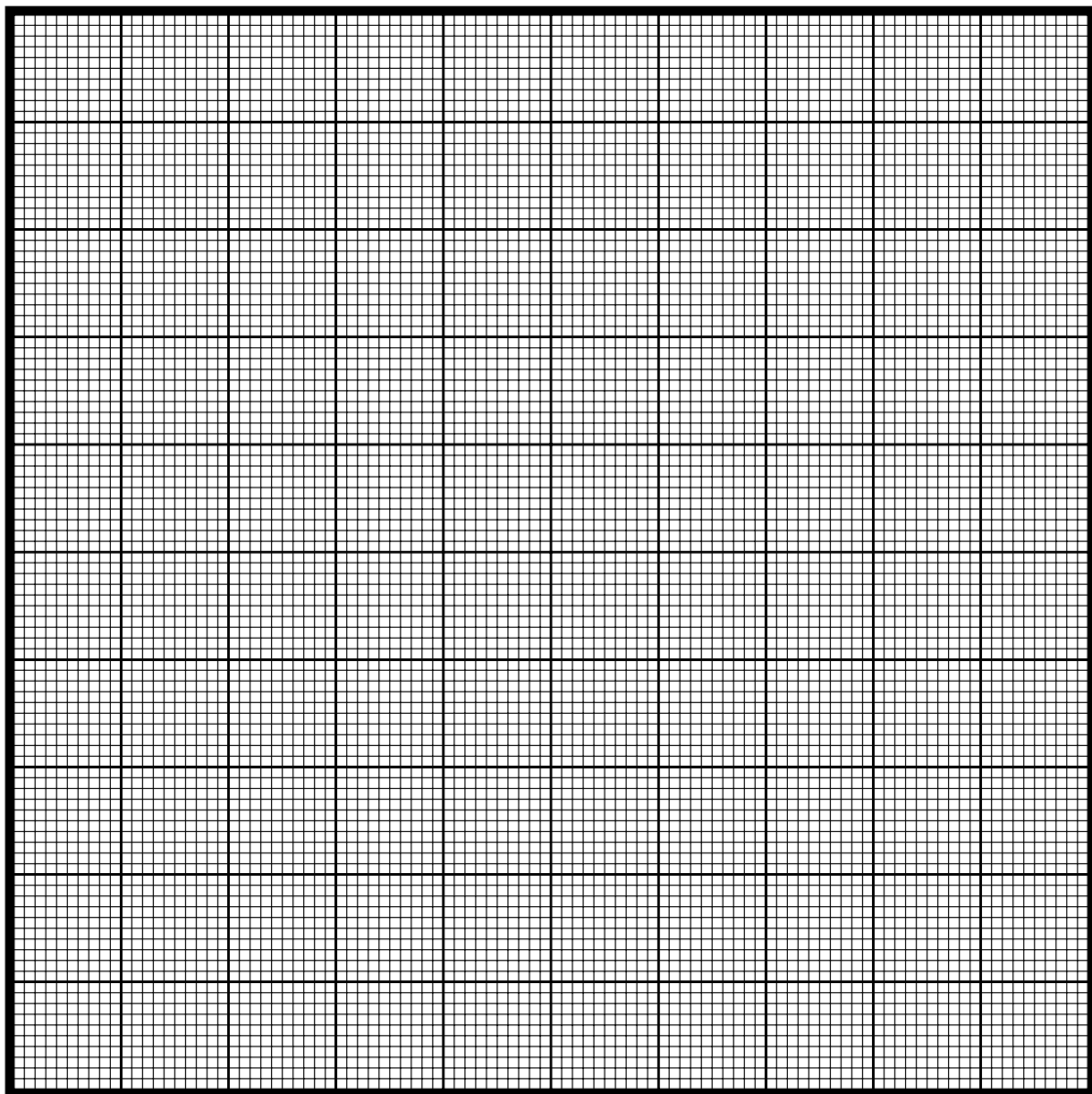
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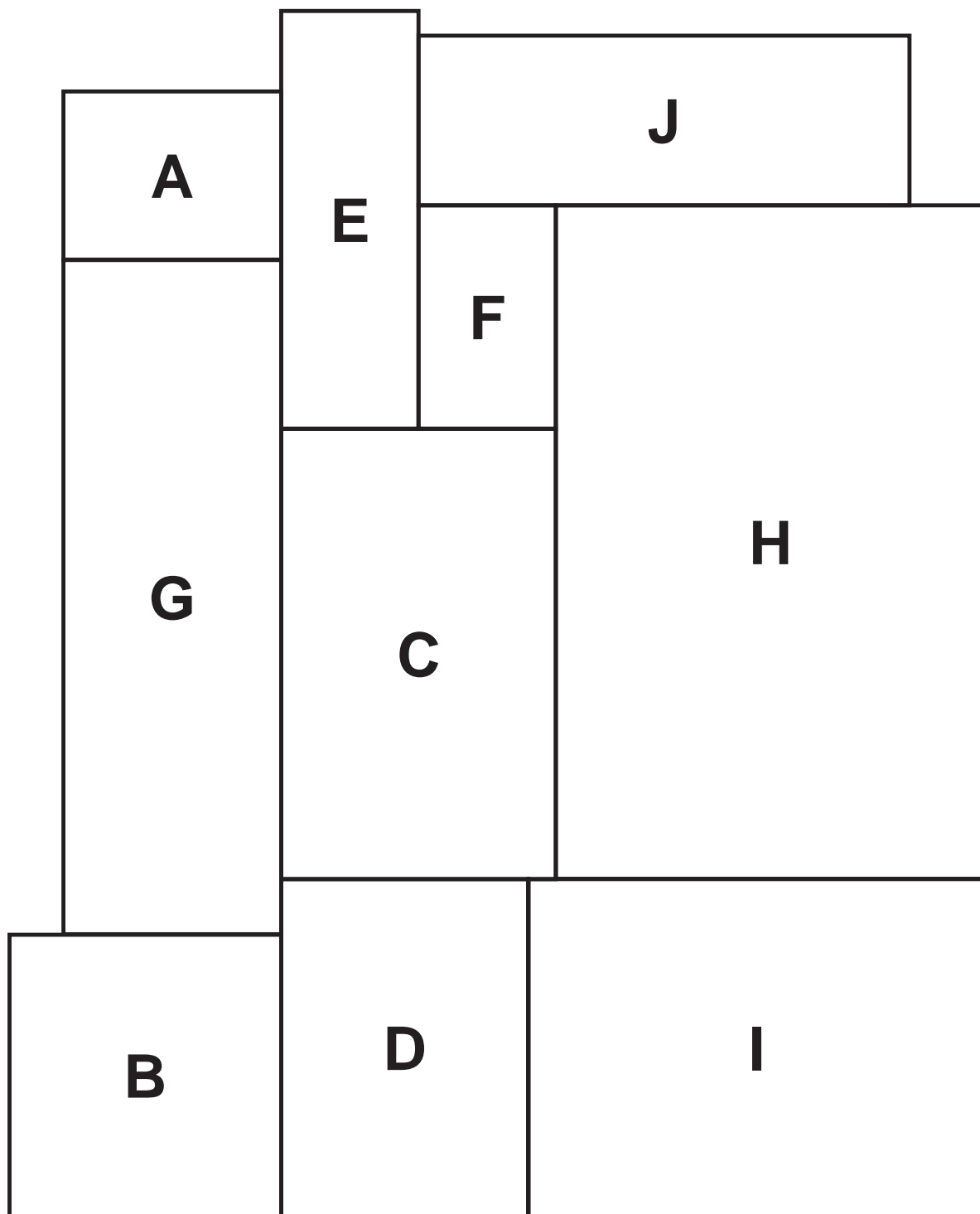
*10 × 10 grids—27*



## *Rational number wheel—28*



*10,000 grid—29*



*Look-alike rectangles—30*

## Look-Alike Rectangles Three Groups and an Odd Ball

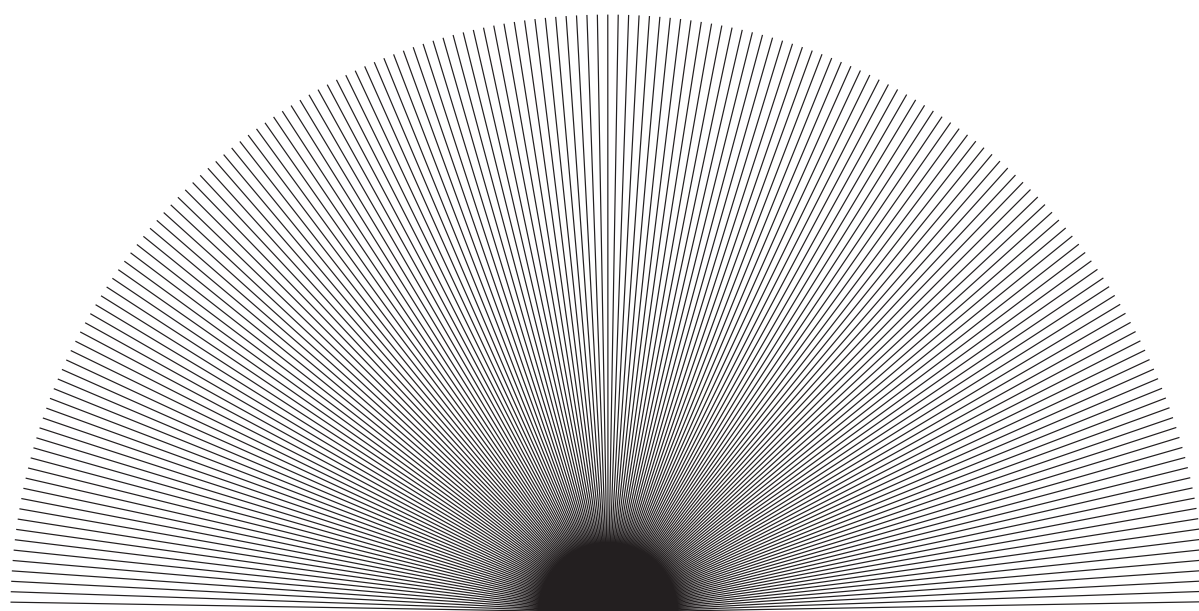
| Rectangles<br>Group 1<br>(Letter of rect.) | Measures in cm |            | Ratio of sides |
|--|----------------|------------|----------------|
|  | Long side      | Short side | Short/Long     |
|  |                |            |                |
|  |                |            |                |
|  |                |            |                |

| Rectangles<br>Group 2<br>(Letter of rect.) | Measures in cm |            | Ratio of sides |
|--|----------------|------------|----------------|
|  | Long side      | Short side | Short/Long     |
|  |                |            |                |
|  |                |            |                |
|  |                |            |                |

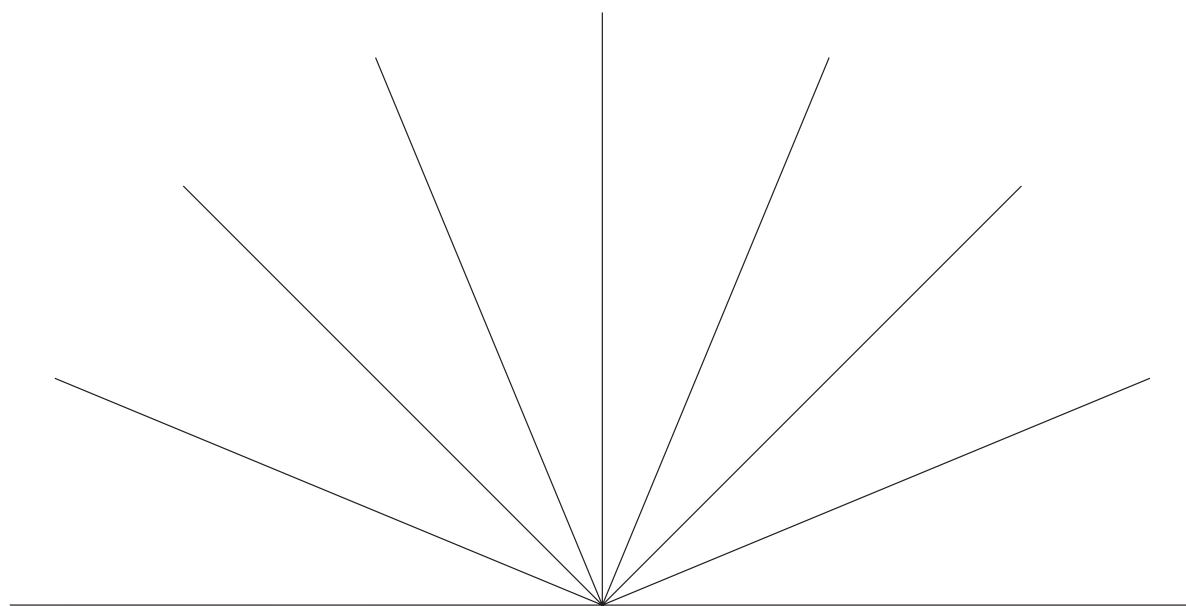
| Rectangles<br>Group 3<br>(Letter of rect.) | Measures in cm |            | Ratio of sides |
|--|----------------|------------|----------------|
|  | Long side      | Short side | Short/Long     |
|  |                |            |                |
|  |                |            |                |
|  |                |            |                |

| Odd Ball<br>(Letter of rect.) | Measures in cm |            | Ratio of sides |
|-------------------------------|----------------|------------|----------------|
|                               | Long side      | Short side | Short/Long     |
|                               |                |            |                |

*Look-alike rectangles recording sheet—31*



180 Degrees

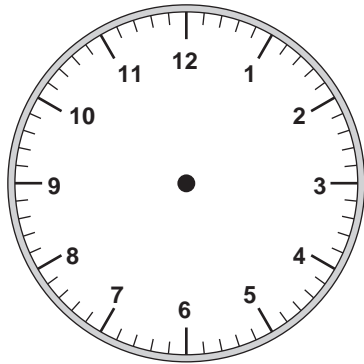


8 Wedges

*Degrees and wedges—32*

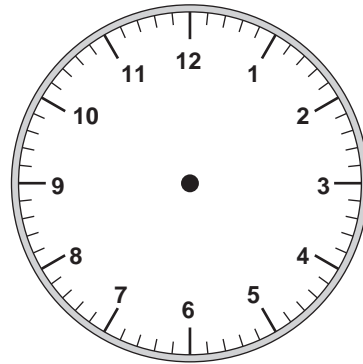


Name \_\_\_\_\_



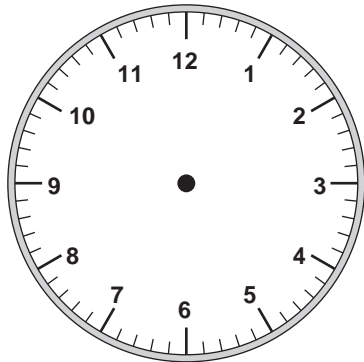
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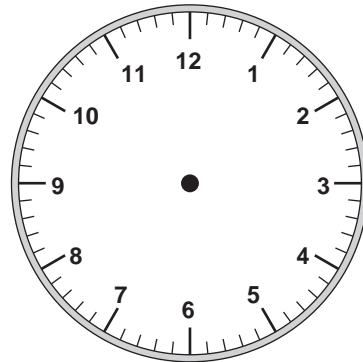
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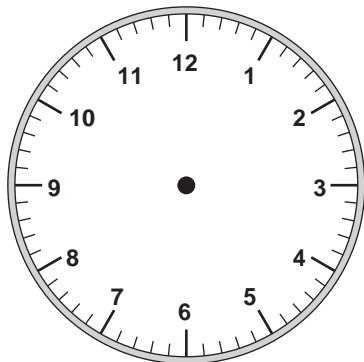
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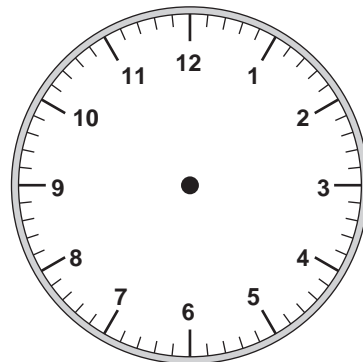
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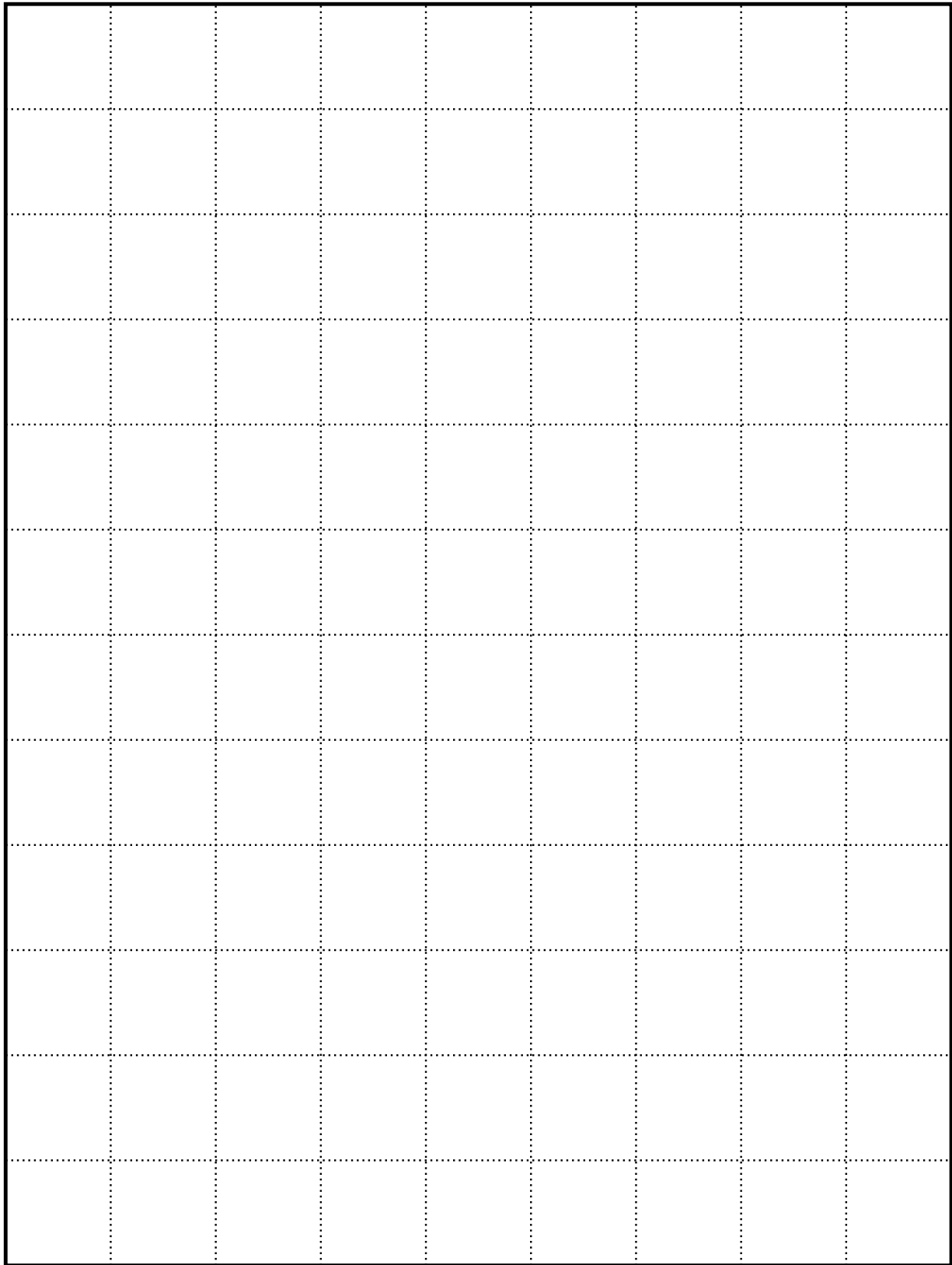
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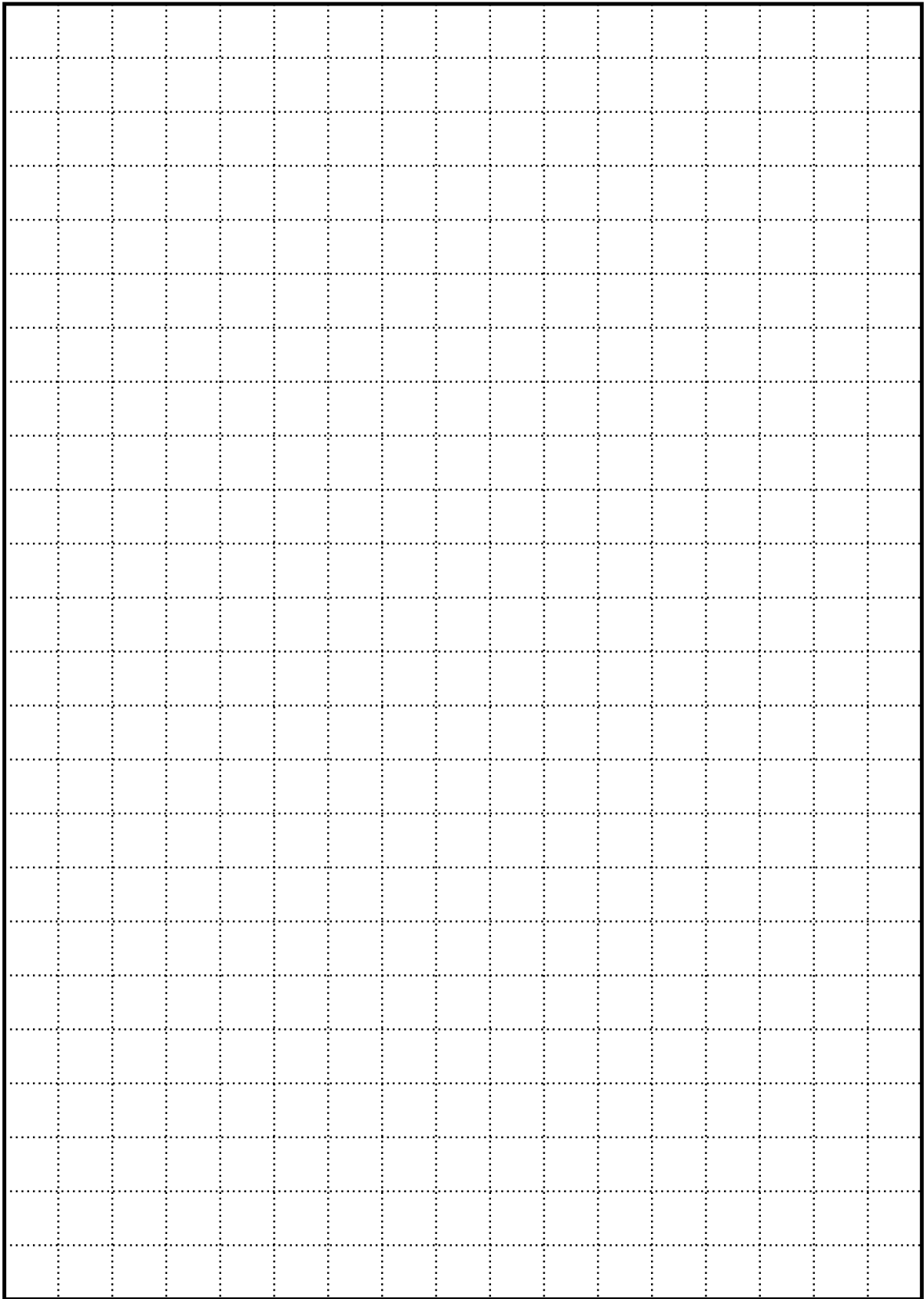
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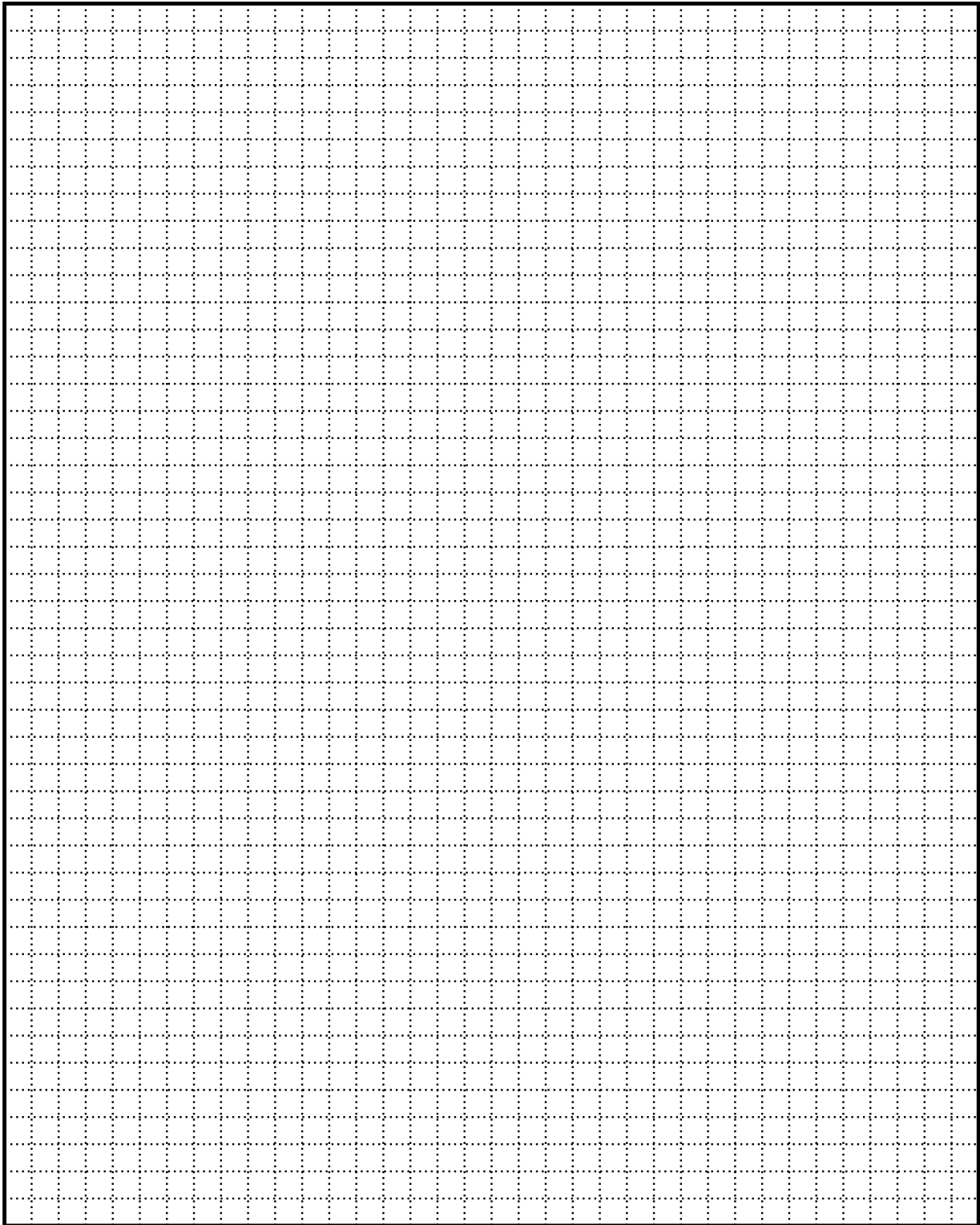
## *Clock faces—33*



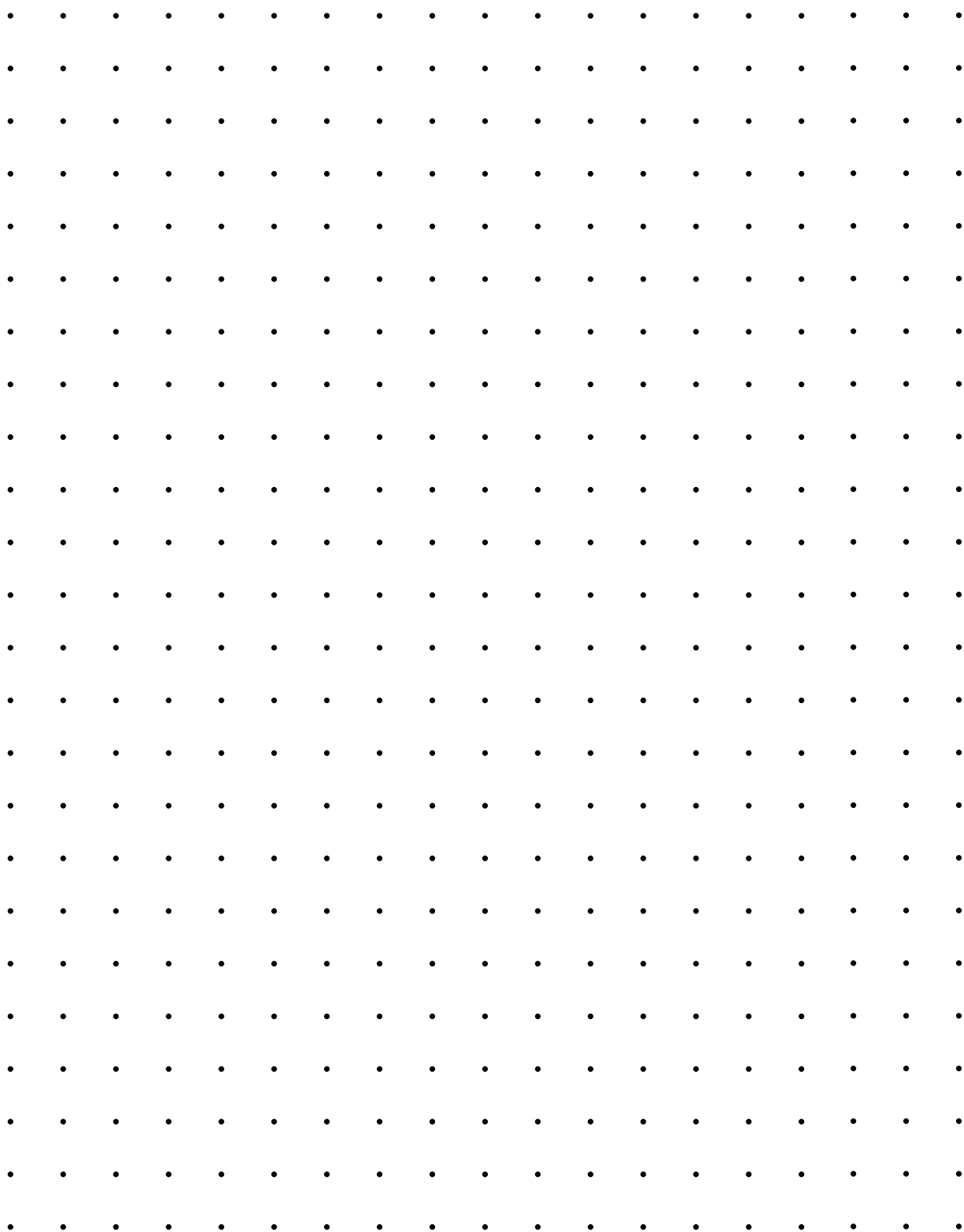
*2-cm square grid—34*



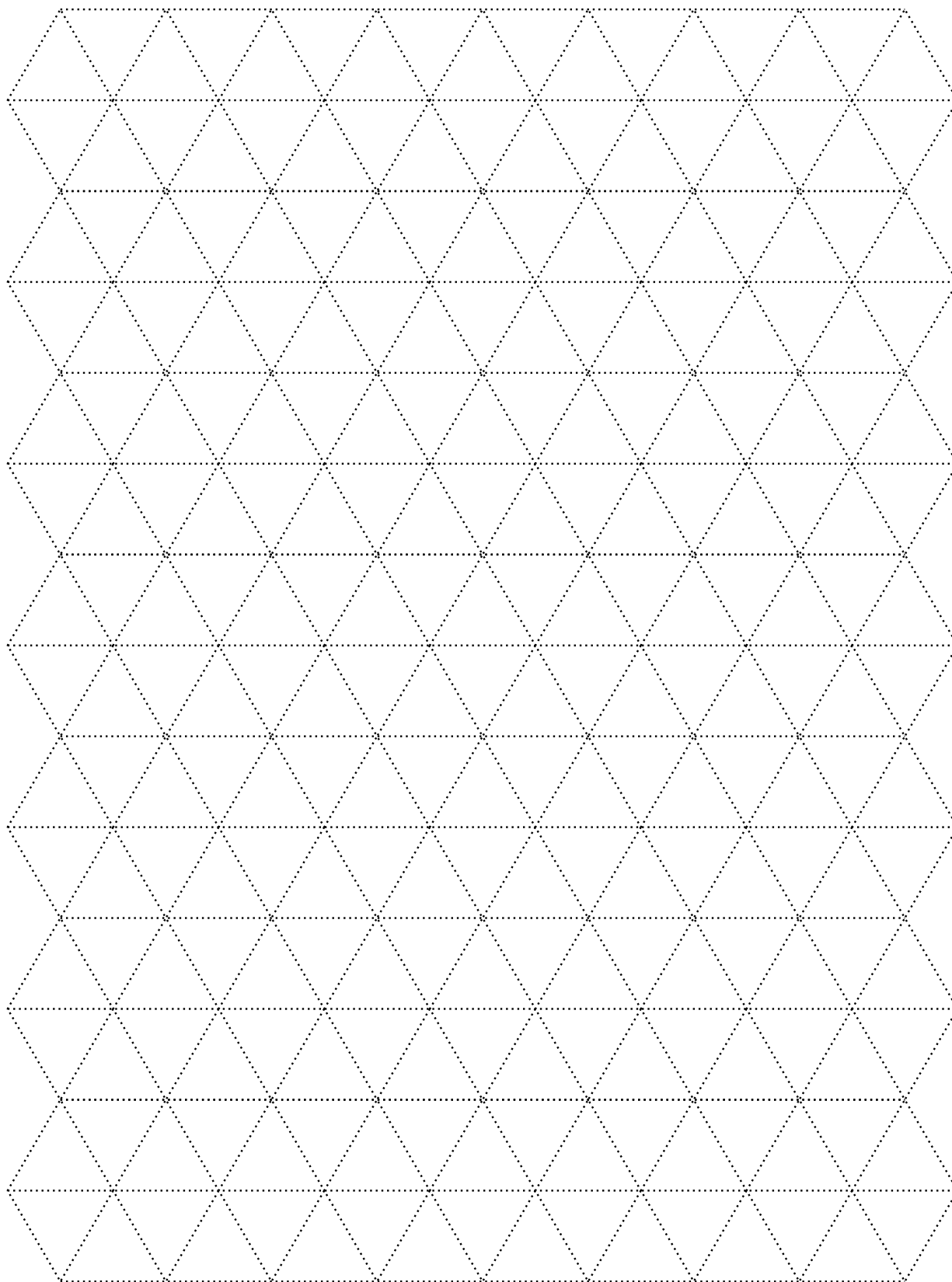
*1-cm square grid—35*



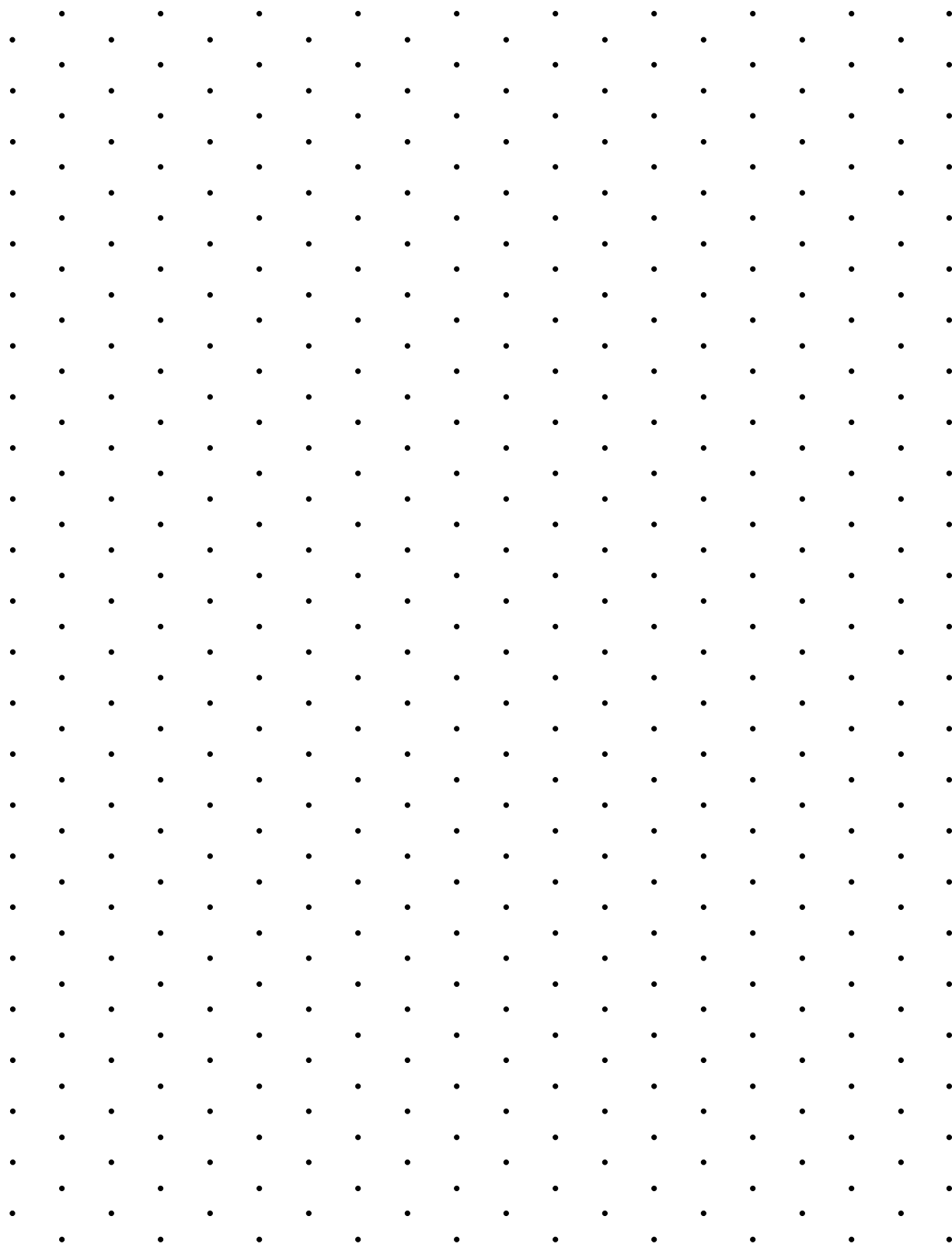
*0.5-cm square grid—36*



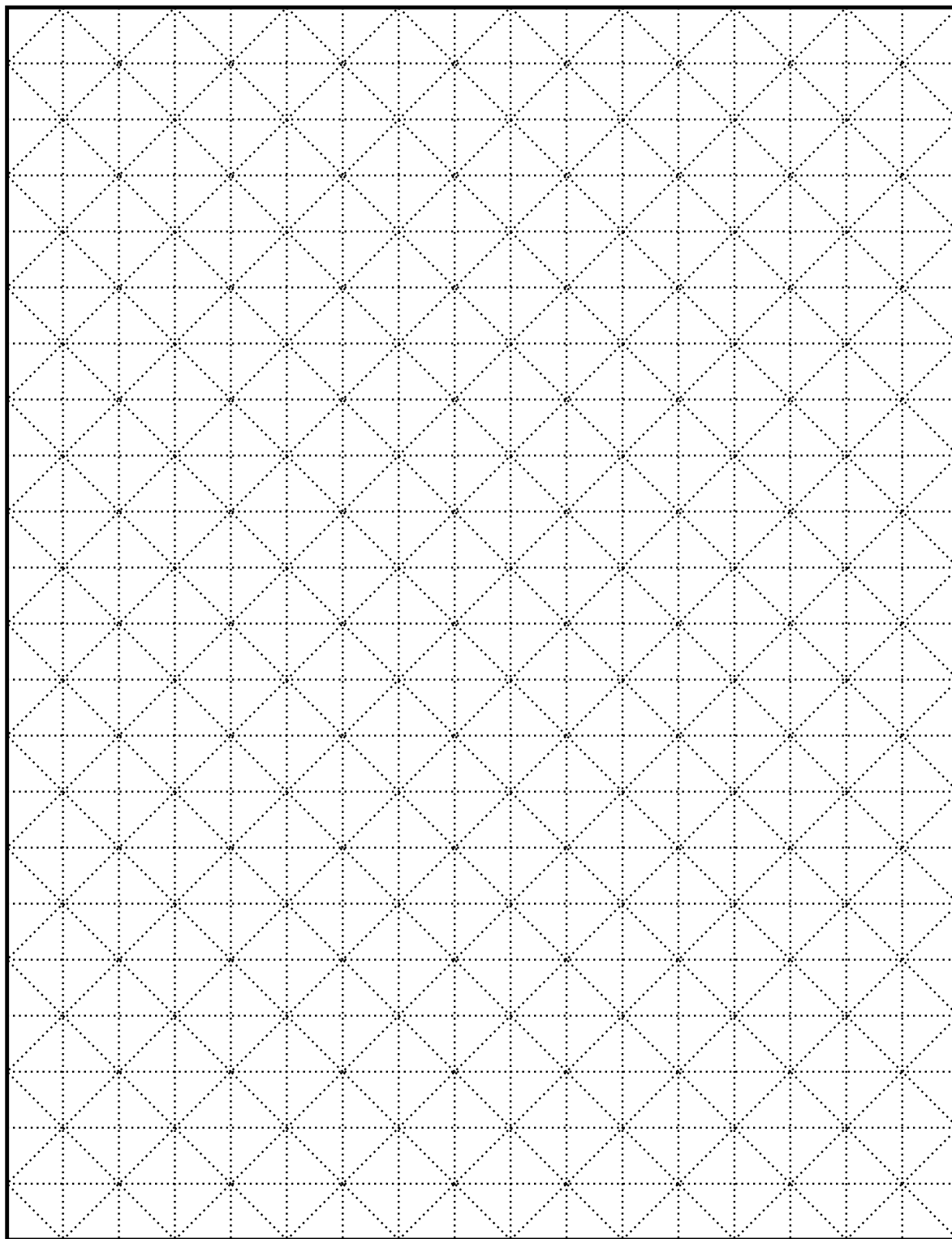
*1-cm square dot grid—37*



*2-cm isometric grid—38*

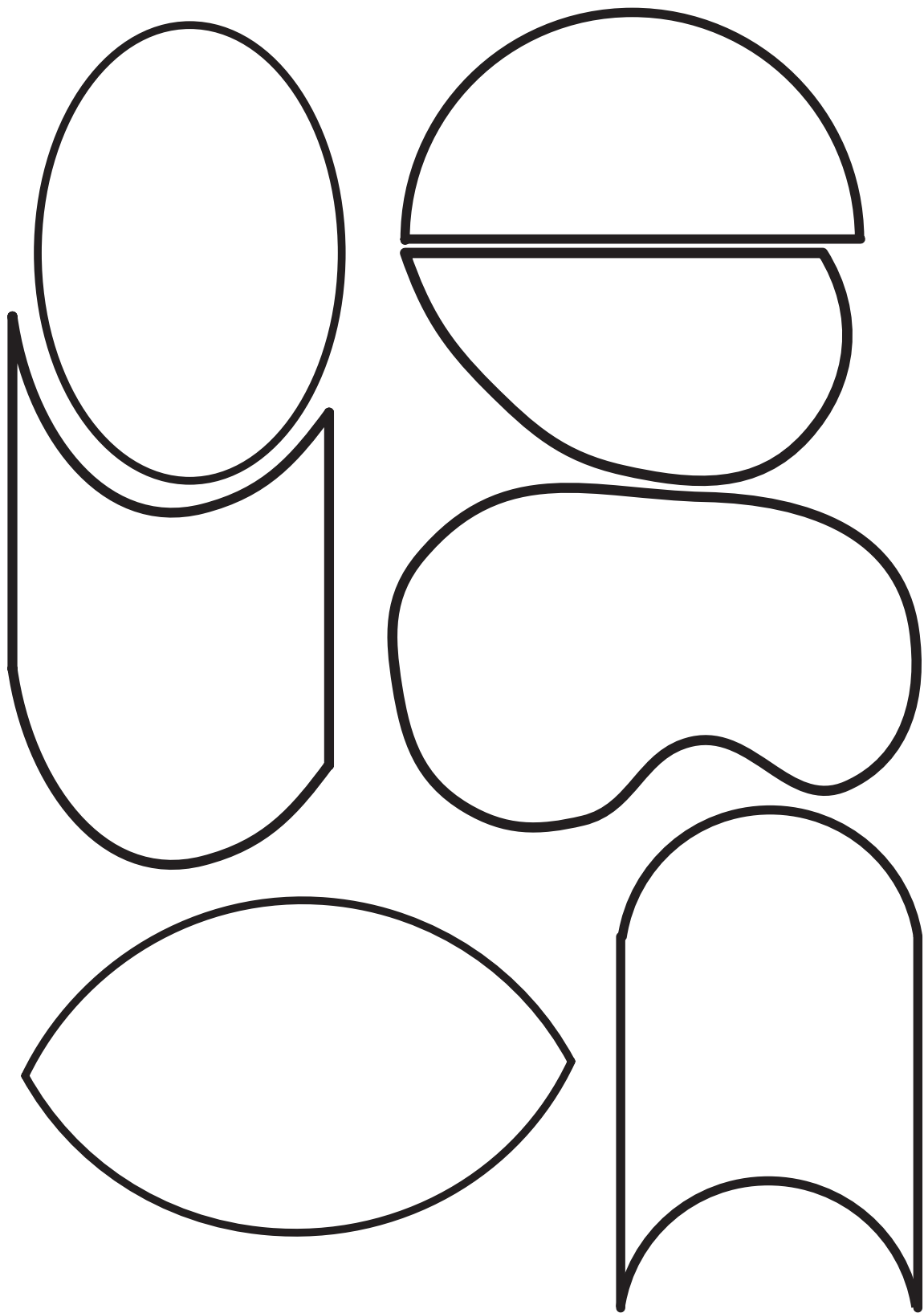


*1-cm isometric dot grid—39*

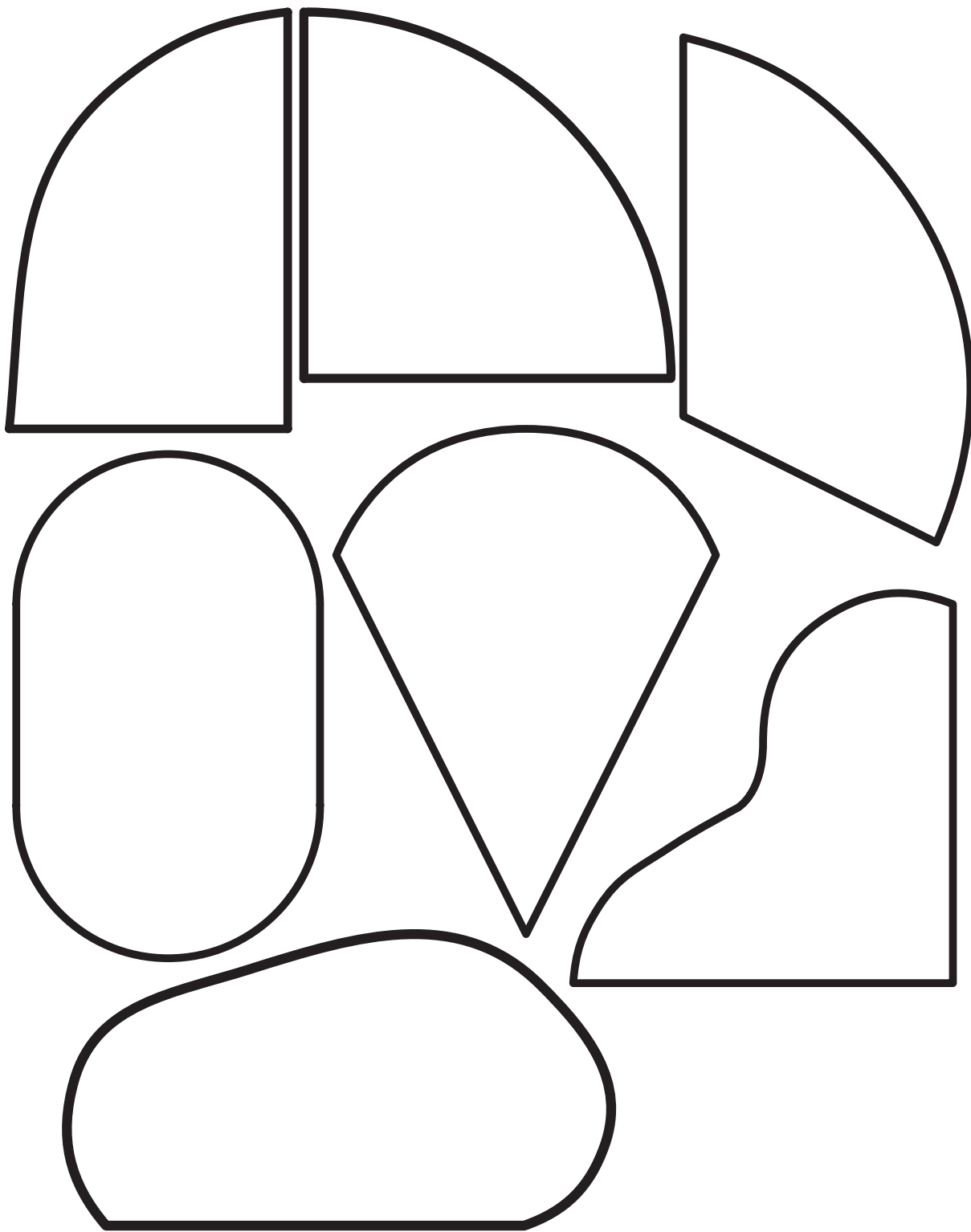


*1-cm square/diagonal grid—40*

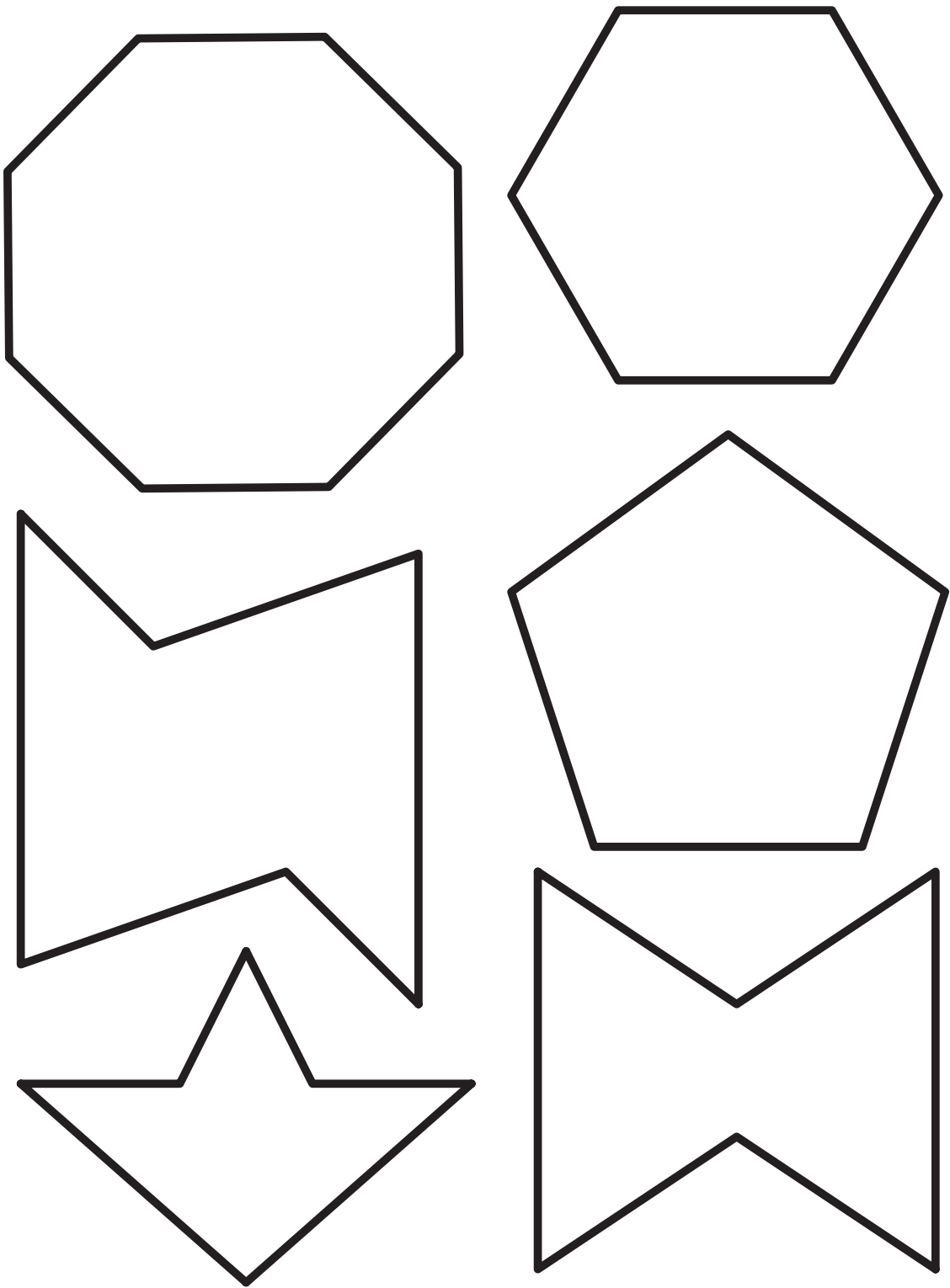




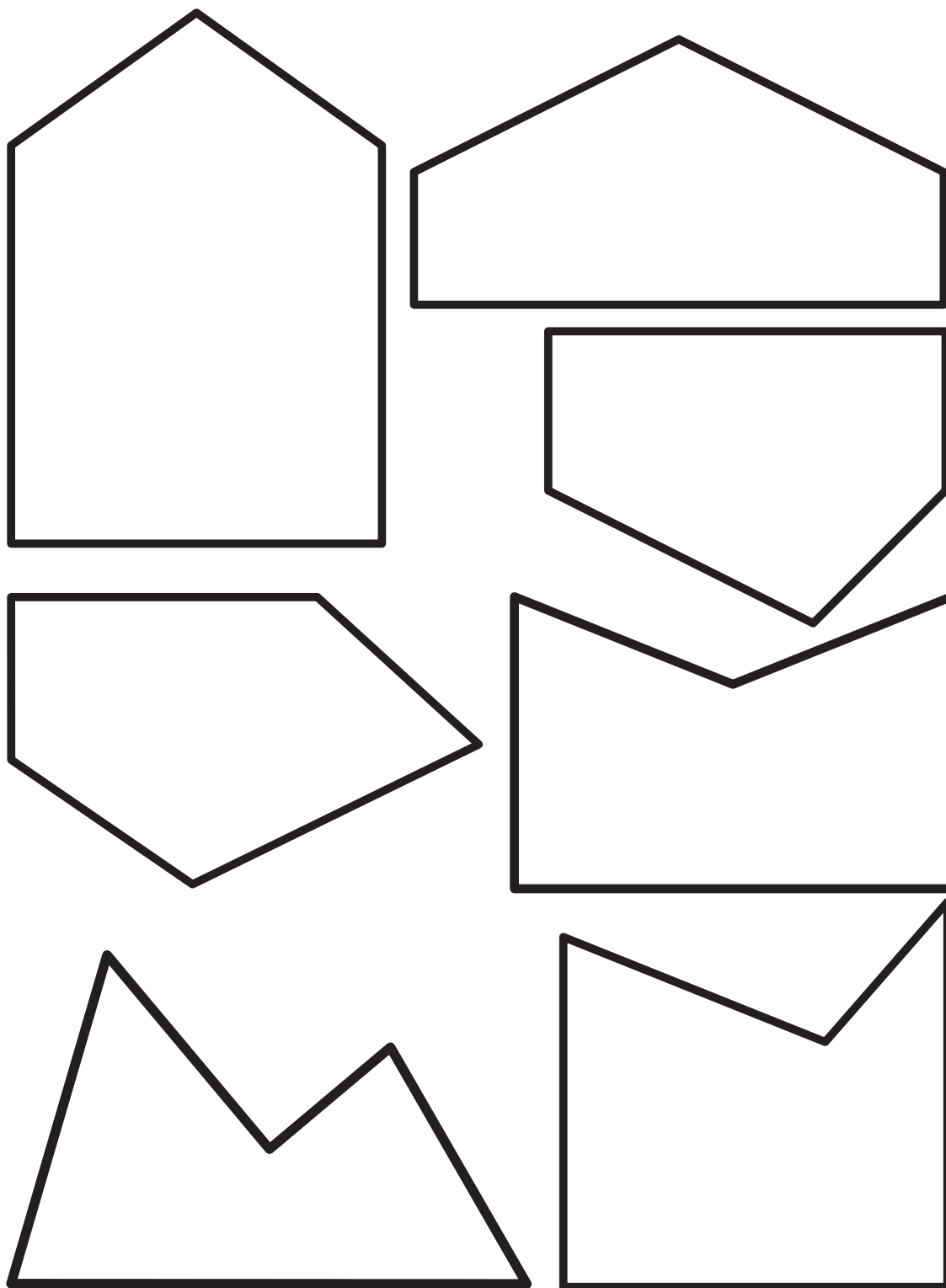
## *Assorted shapes—41*



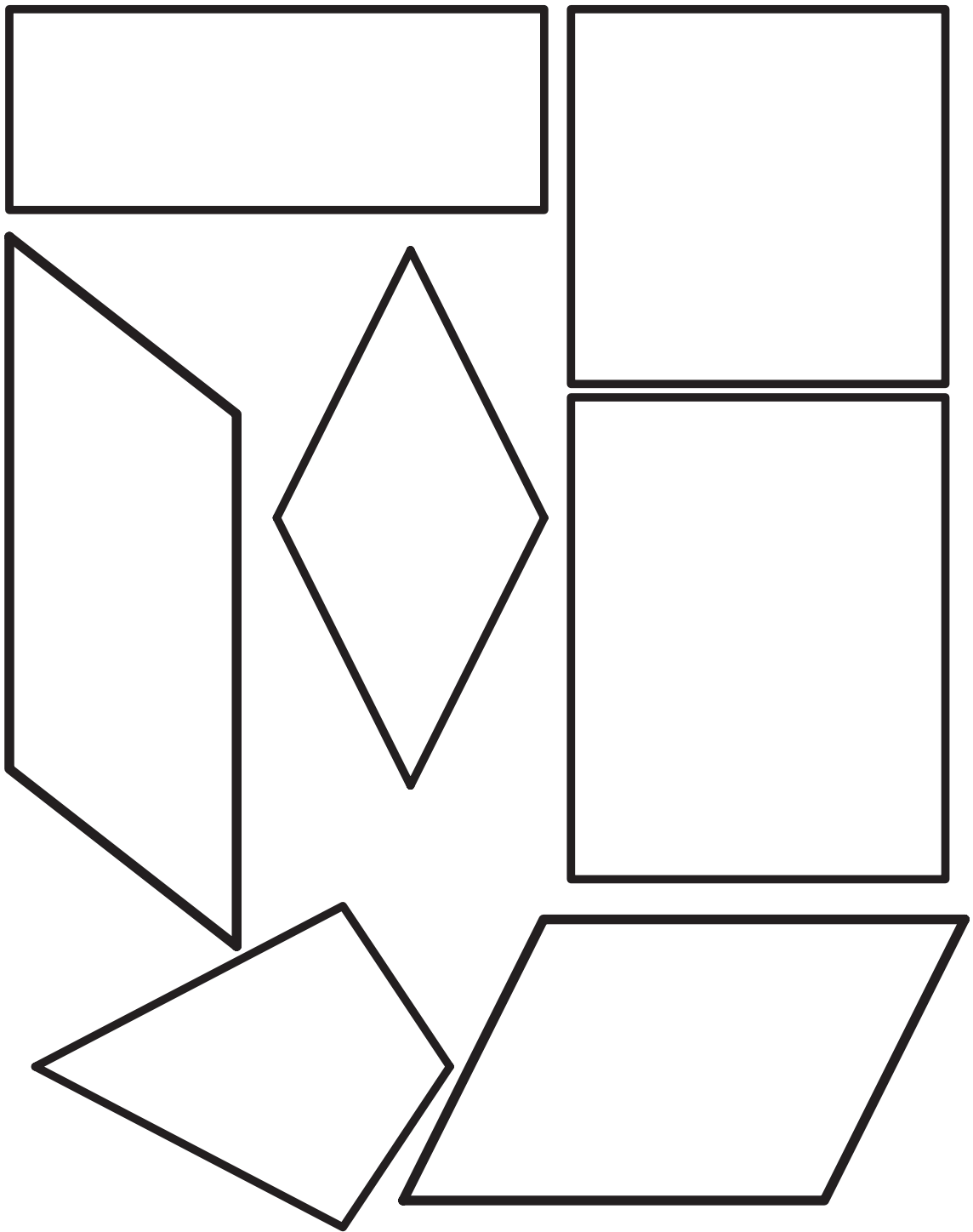
## *Assorted shapes—42*



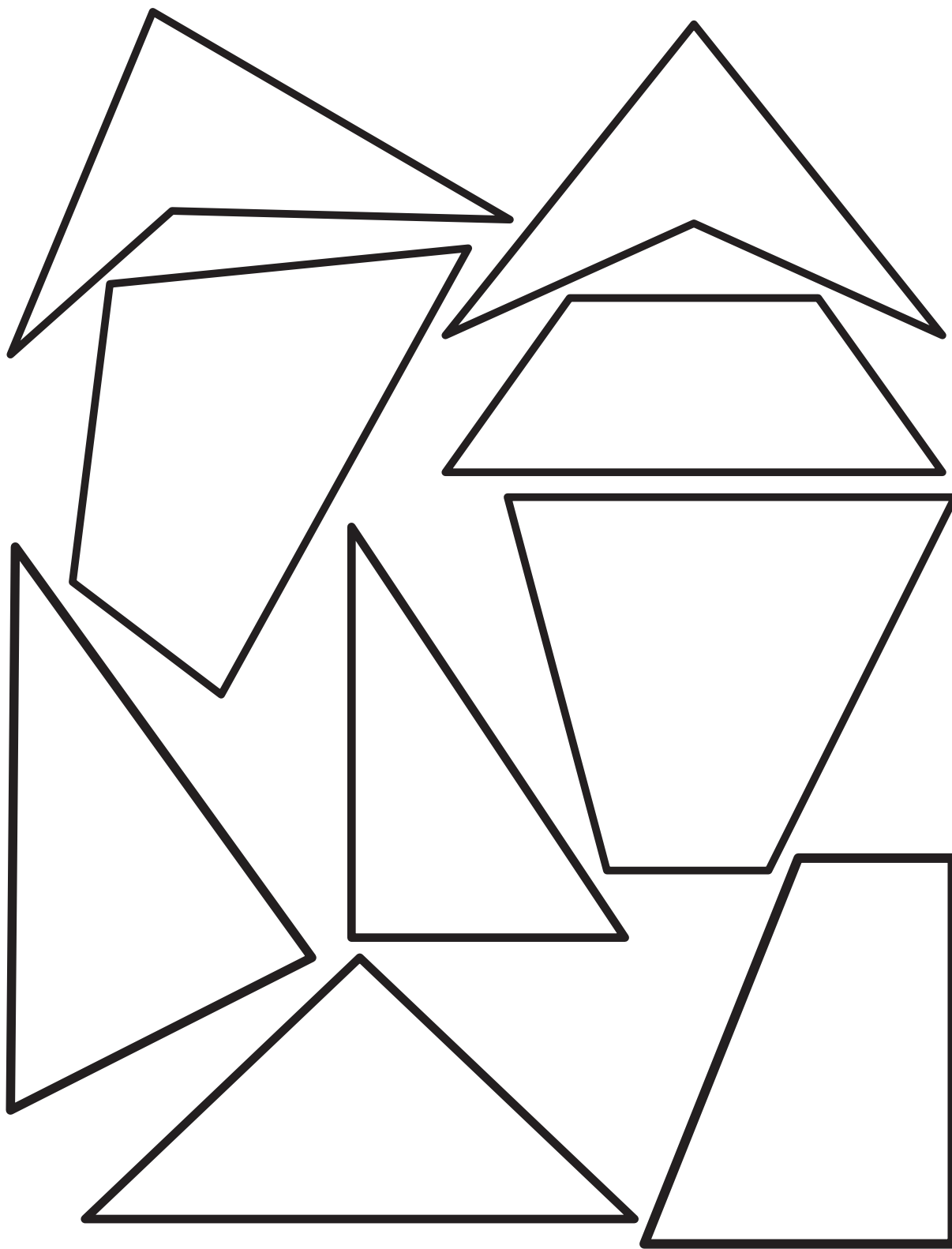
*Assorted shapes—43*



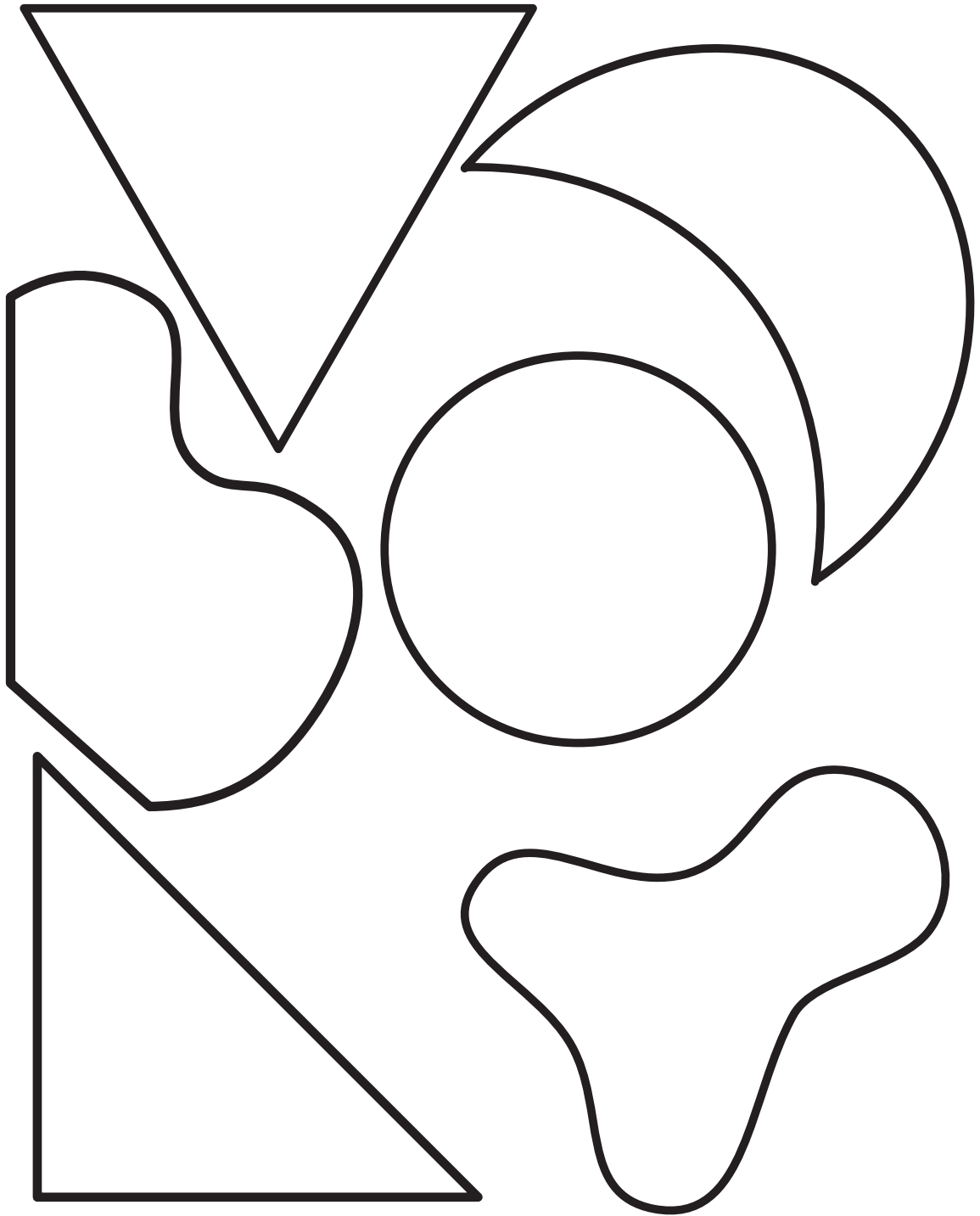
## *Assorted shapes—44*



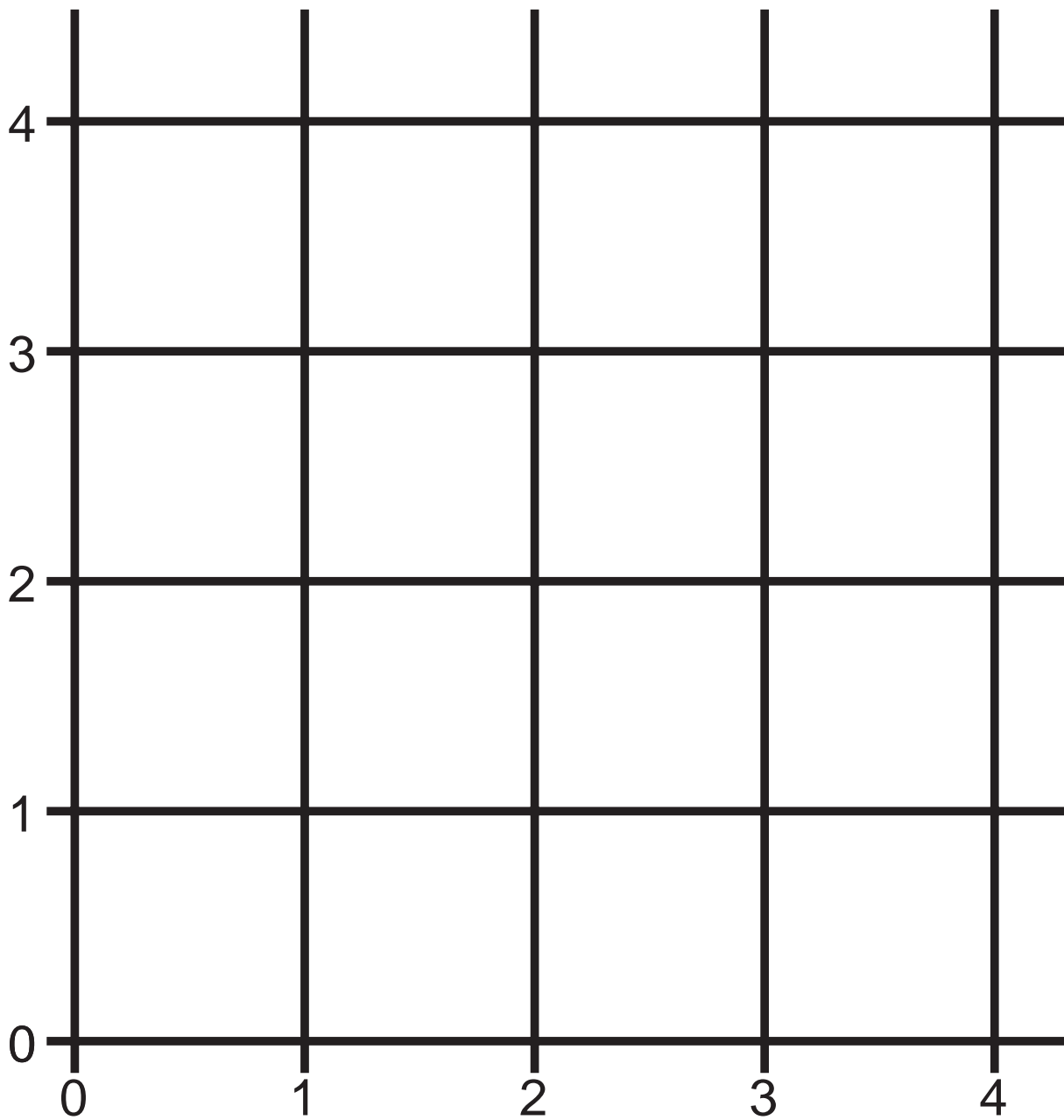
*Assorted shapes—45*



## *Assorted shapes—46*

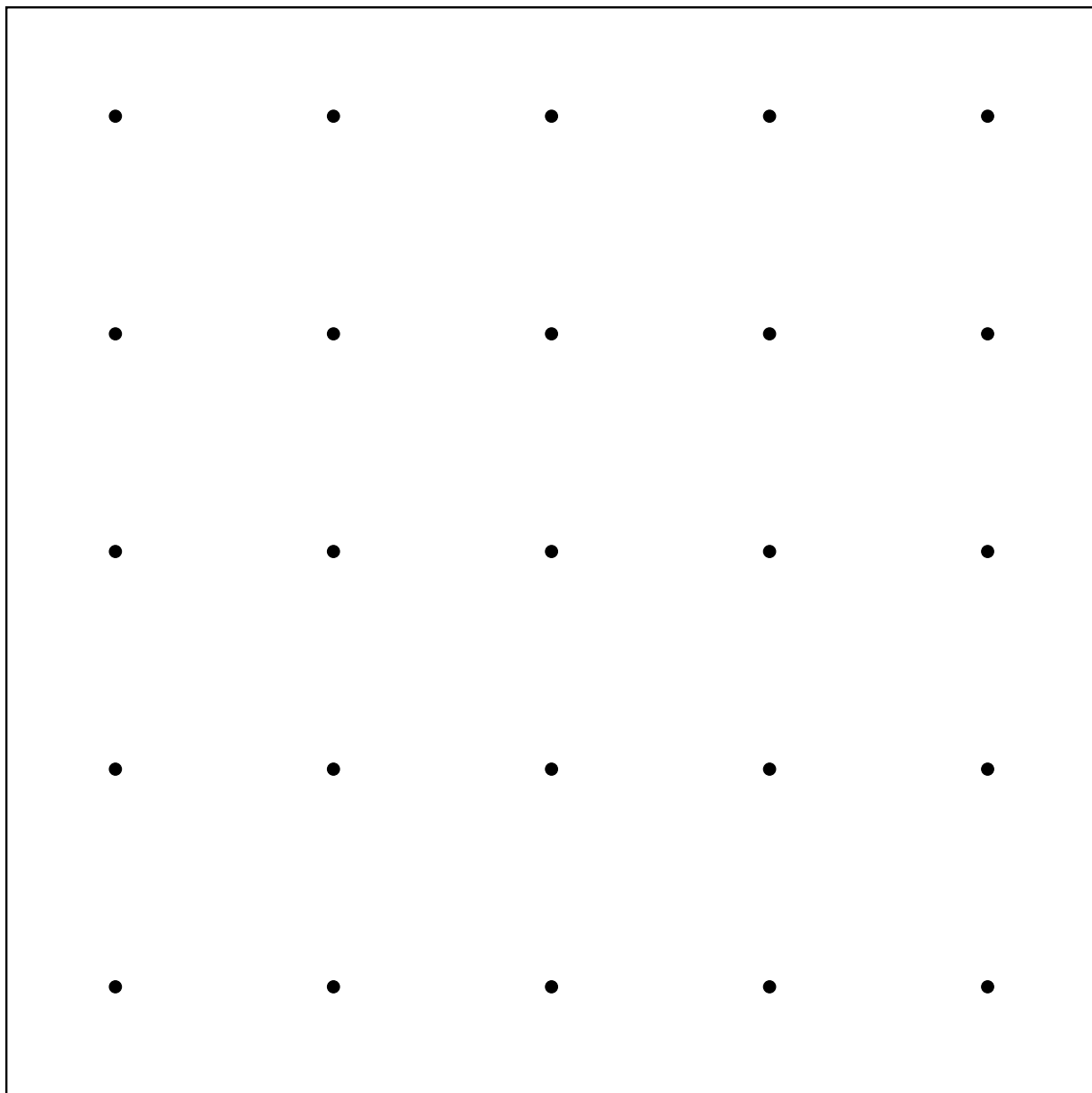


## *Assorted shapes—47*

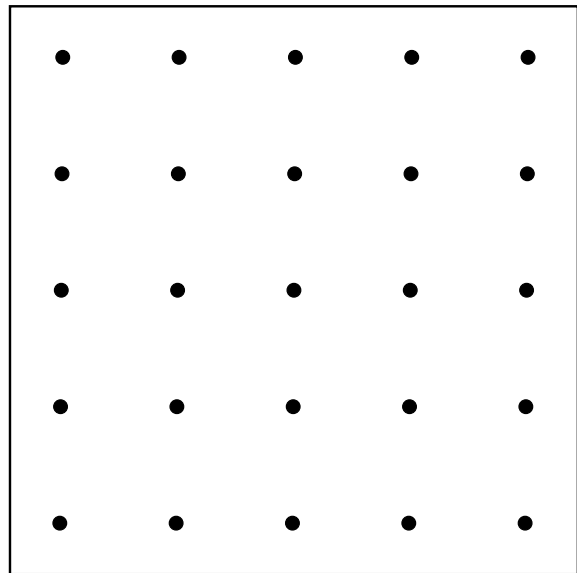
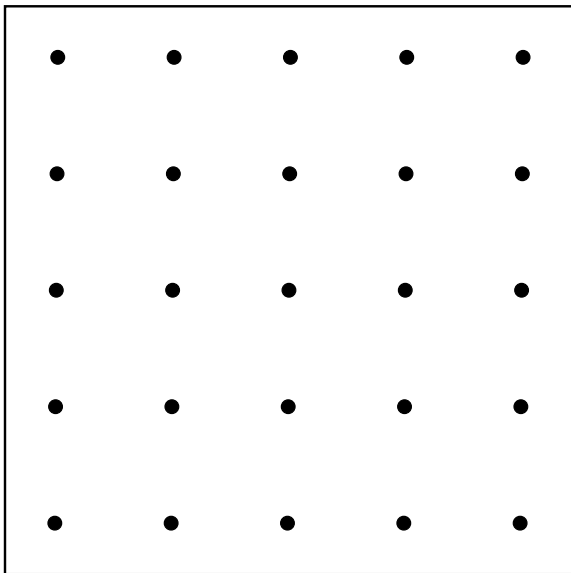
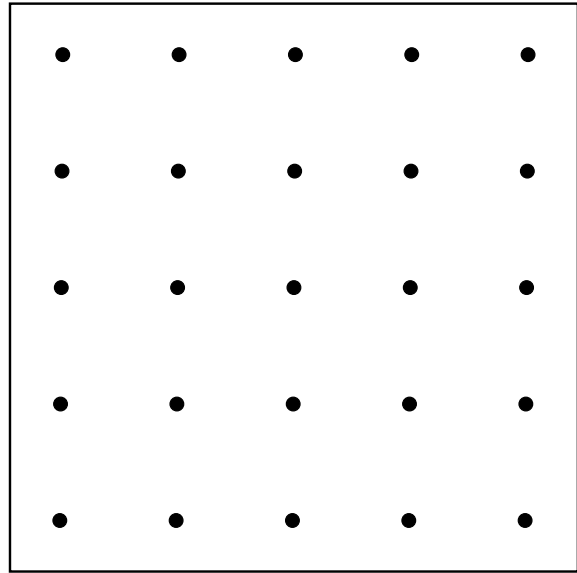
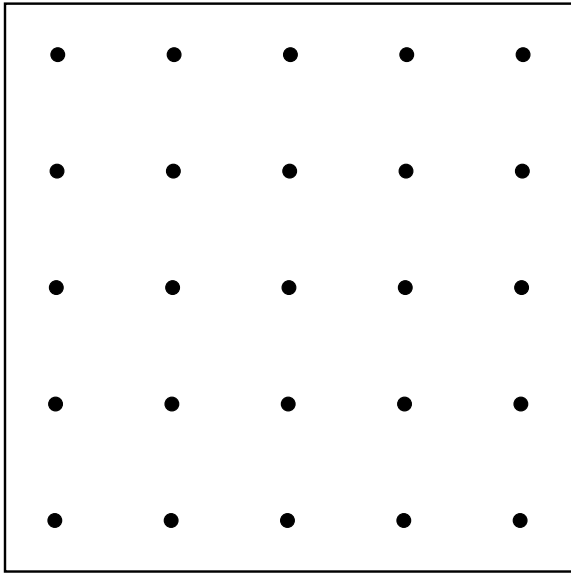


*Coordinate grid—48*

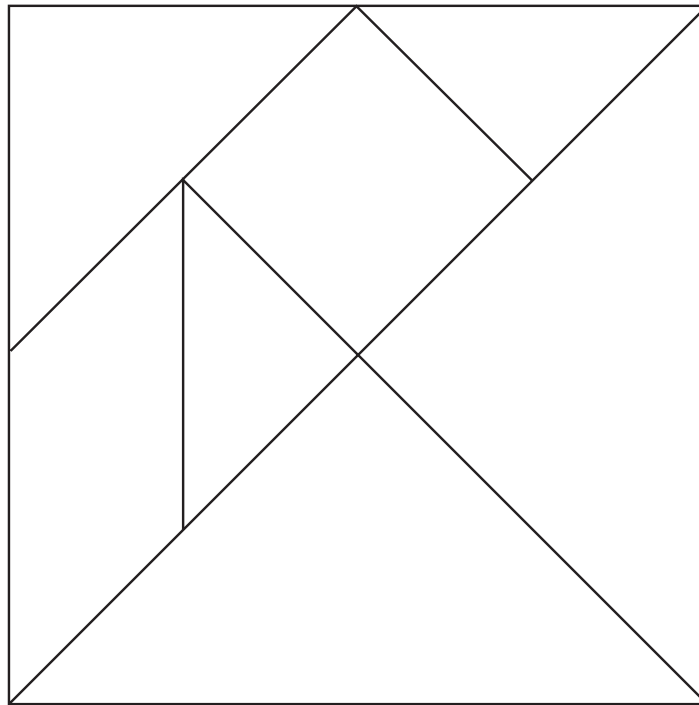




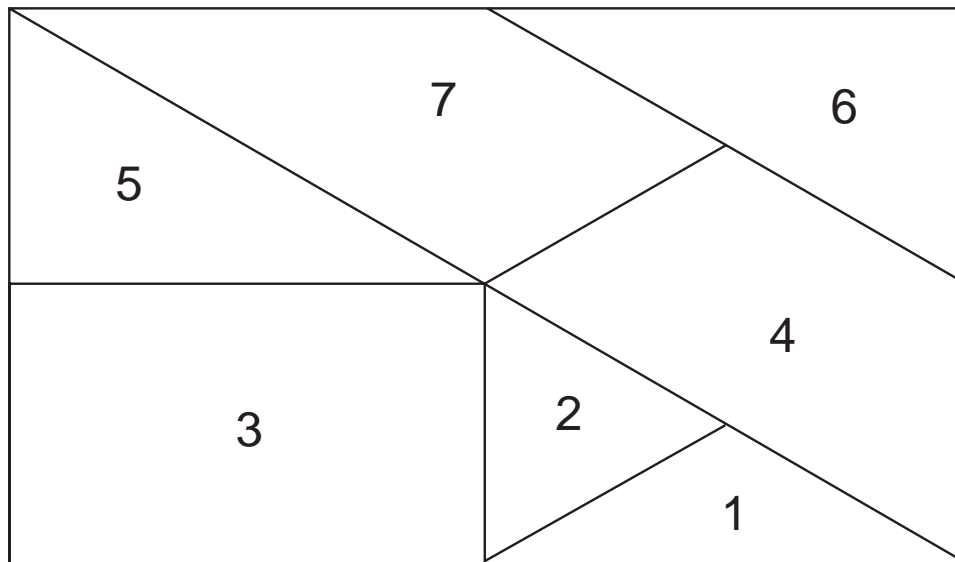
*Geoboard pattern—49*



## *Geoboard recording sheets—50*

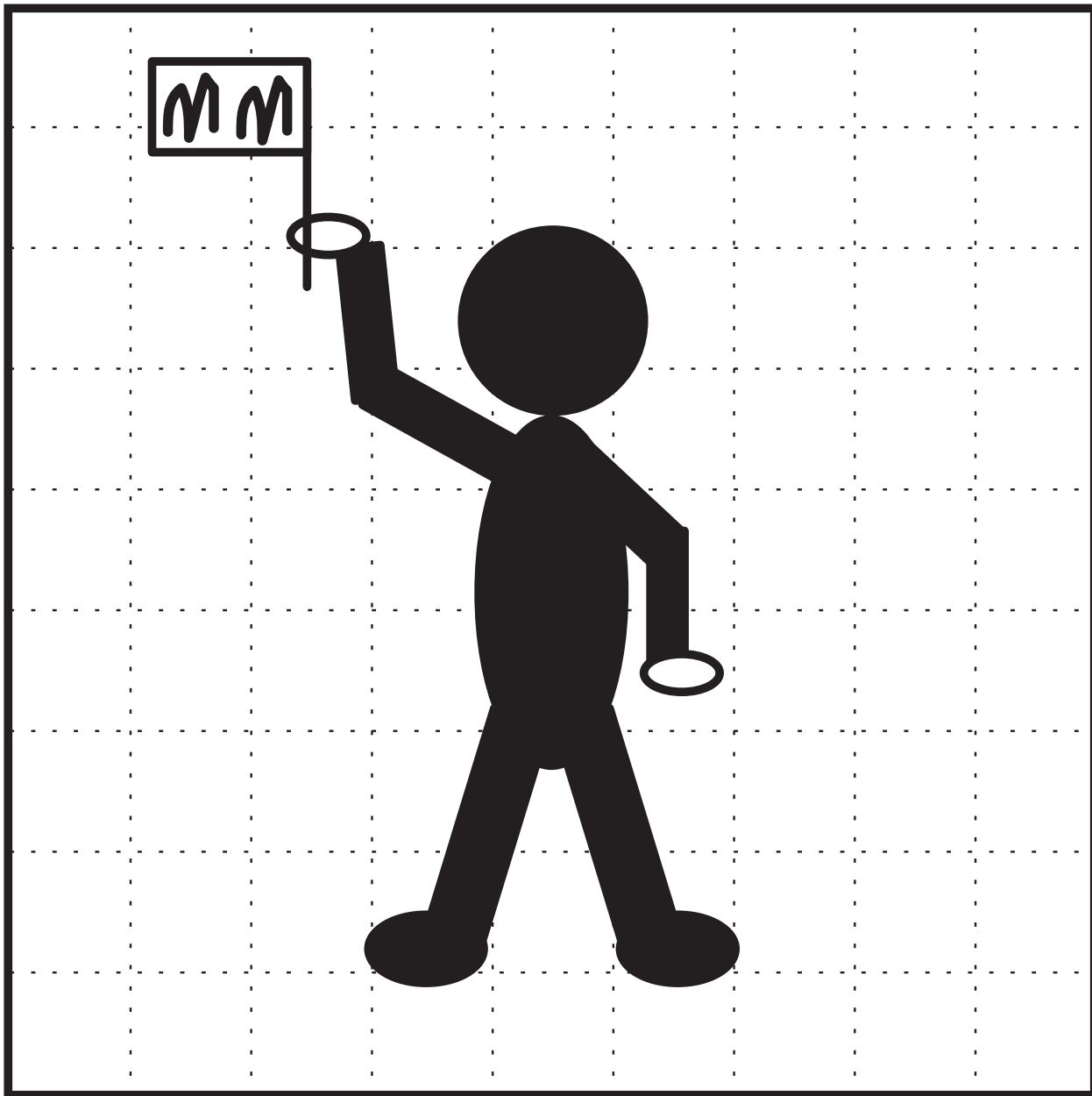


Tangrams



Mosaic puzzle

## *Tangrams and mosaic puzzle—51*

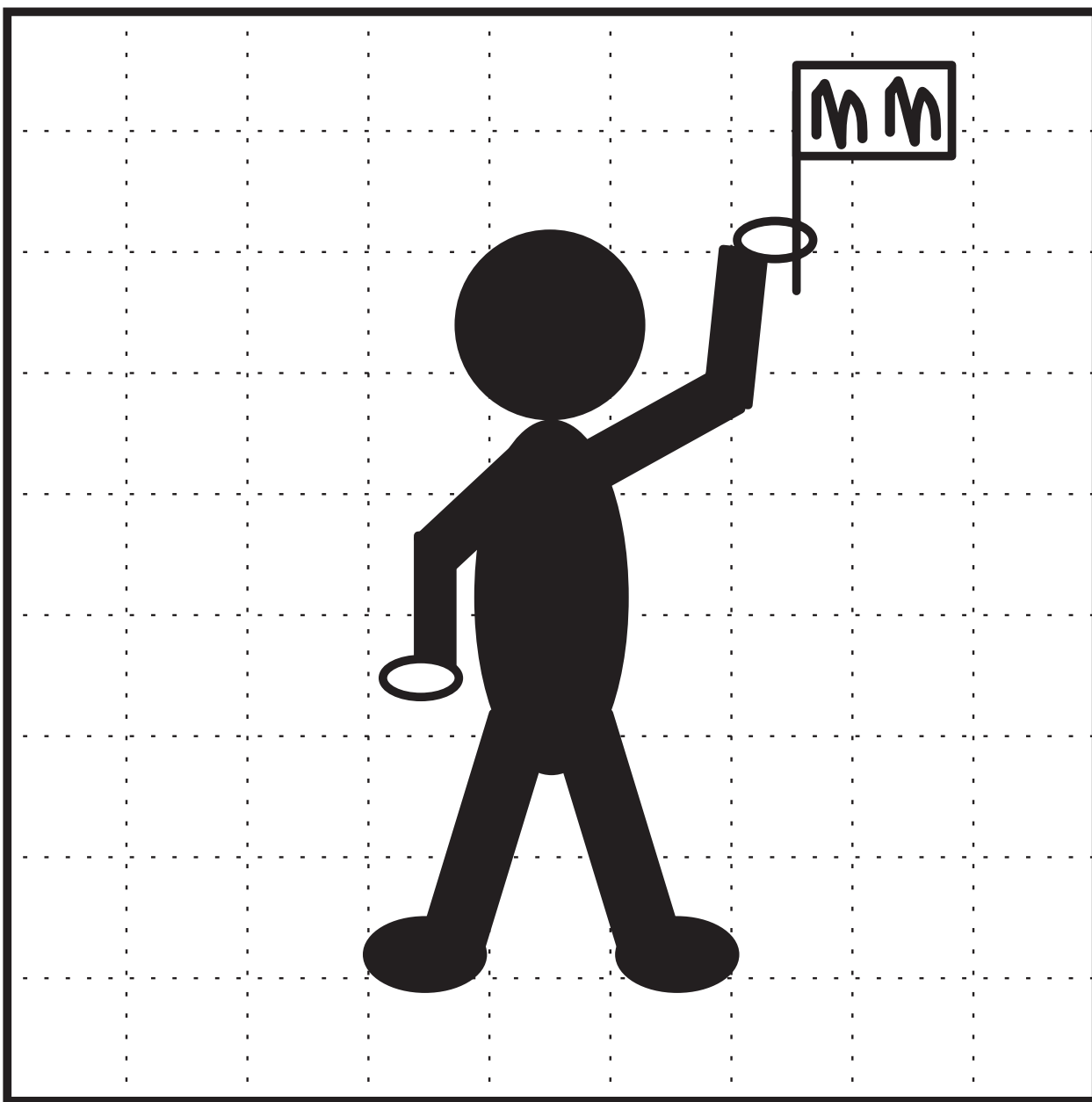


Motion man—Side 1

Directions:

Make copies of Side 1. Then copy Side 2 on the reverse of Side 1. Check the orientation with one copy. When done correctly the two sides will match up when held to the light.

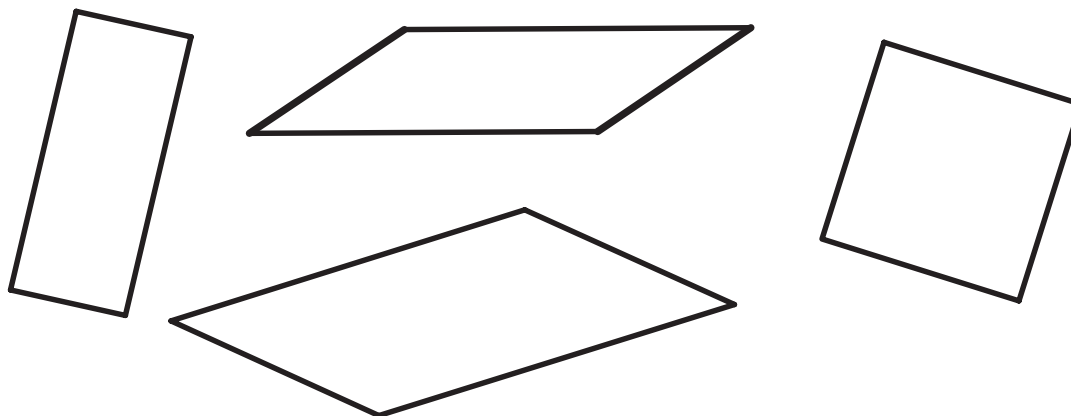
*Motion man—52*



Motion man—Side 2  
(See directions on Side 1.)

*Motion man—53*

## Parallelograms



**Properties of sides:**

**Properties of angles:**

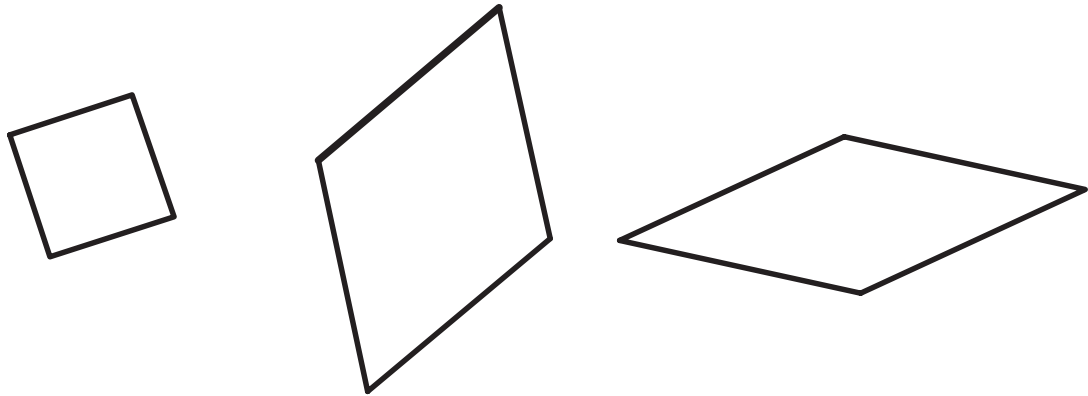
**Properties of diagonals:**

Note: Diagonals are perpendicular or not  
Bisected by the other or not  
Congruent or not

**Properties of symmetry (line and point):**

*Property lists for quadrilaterals—54*

## Rhombuses



**Properties of sides:**

**Properties of angles:**

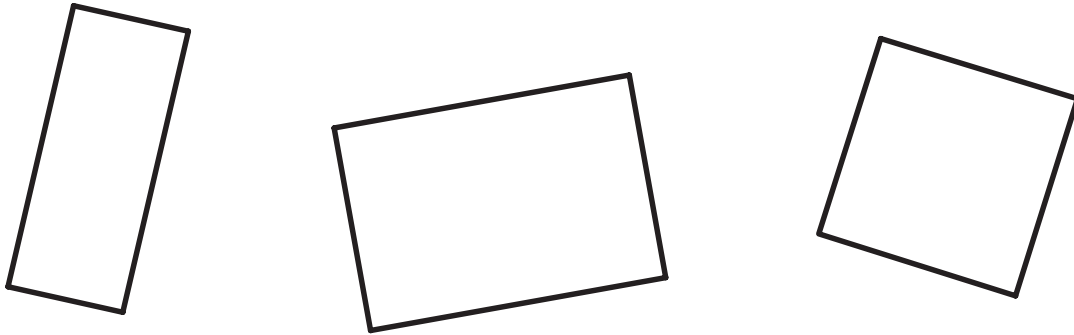
**Properties of diagonals:**

Note: Diagonals are perpendicular or not  
Bisected by the other or not  
Congruent or not

**Properties of symmetry (line and point):**

*Property lists for quadrilaterals—55*

## Rectangles



**Properties of sides:**

**Properties of angles:**

**Properties of diagonals:**

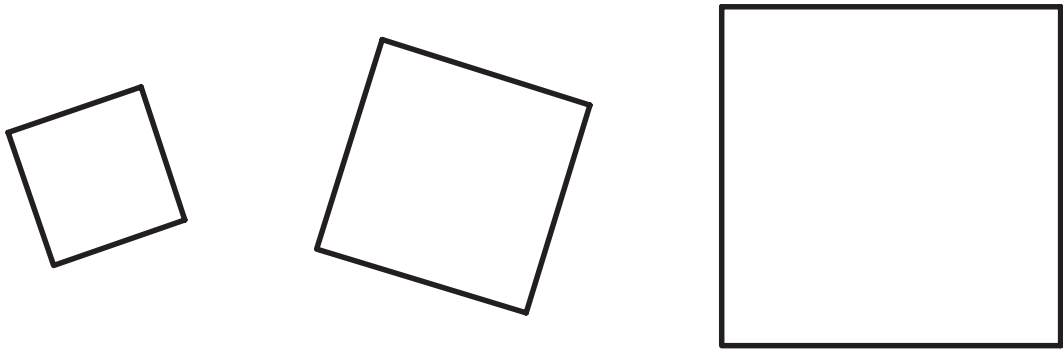
Note: Diagonals are perpendicular or not  
Bisected by the other or not  
Congruent or not

**Properties of symmetry (line and point):**

*Property lists for quadrilaterals—56*



## Squares



**Properties of sides:**

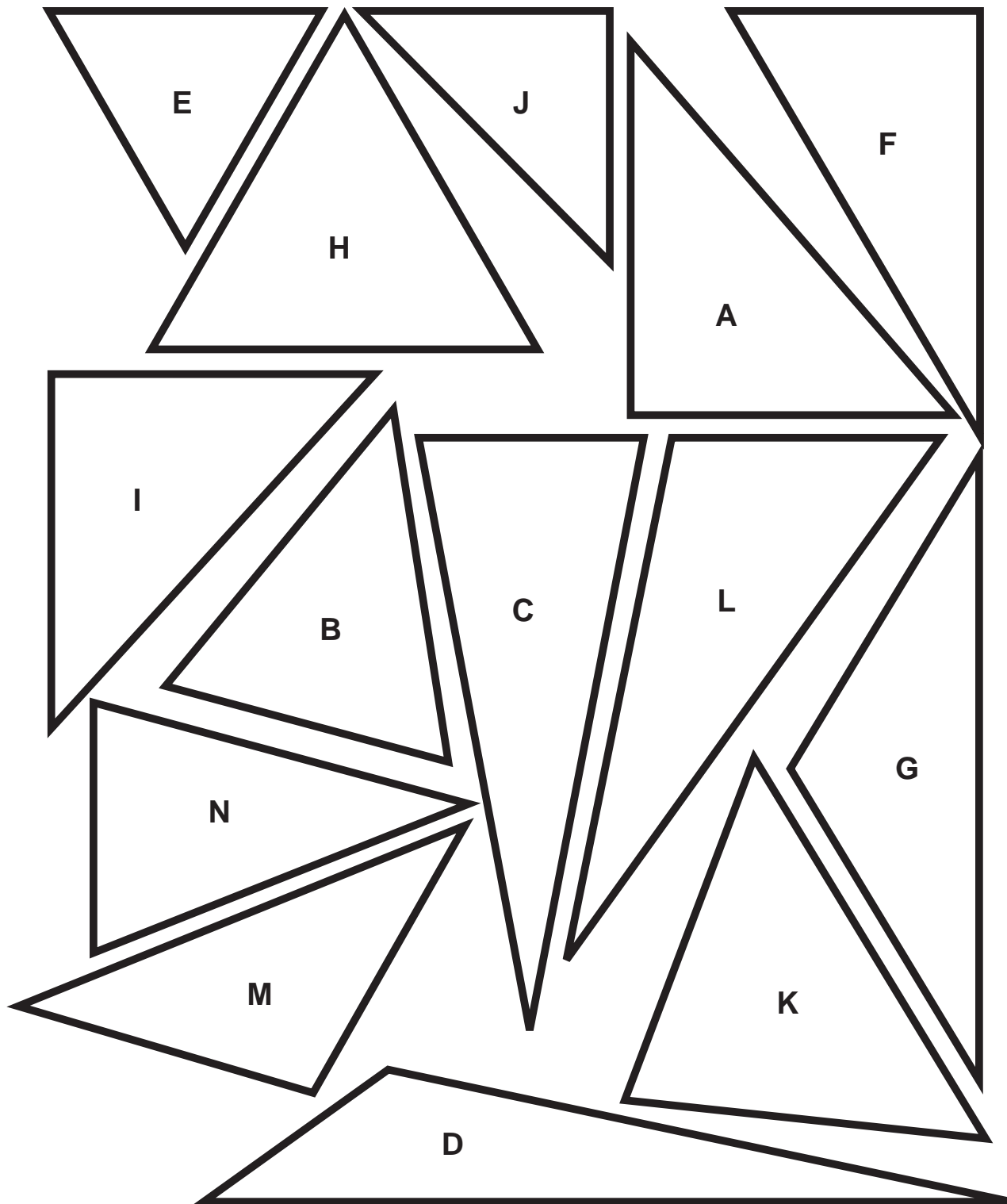
**Properties of angles:**

**Properties of diagonals:**

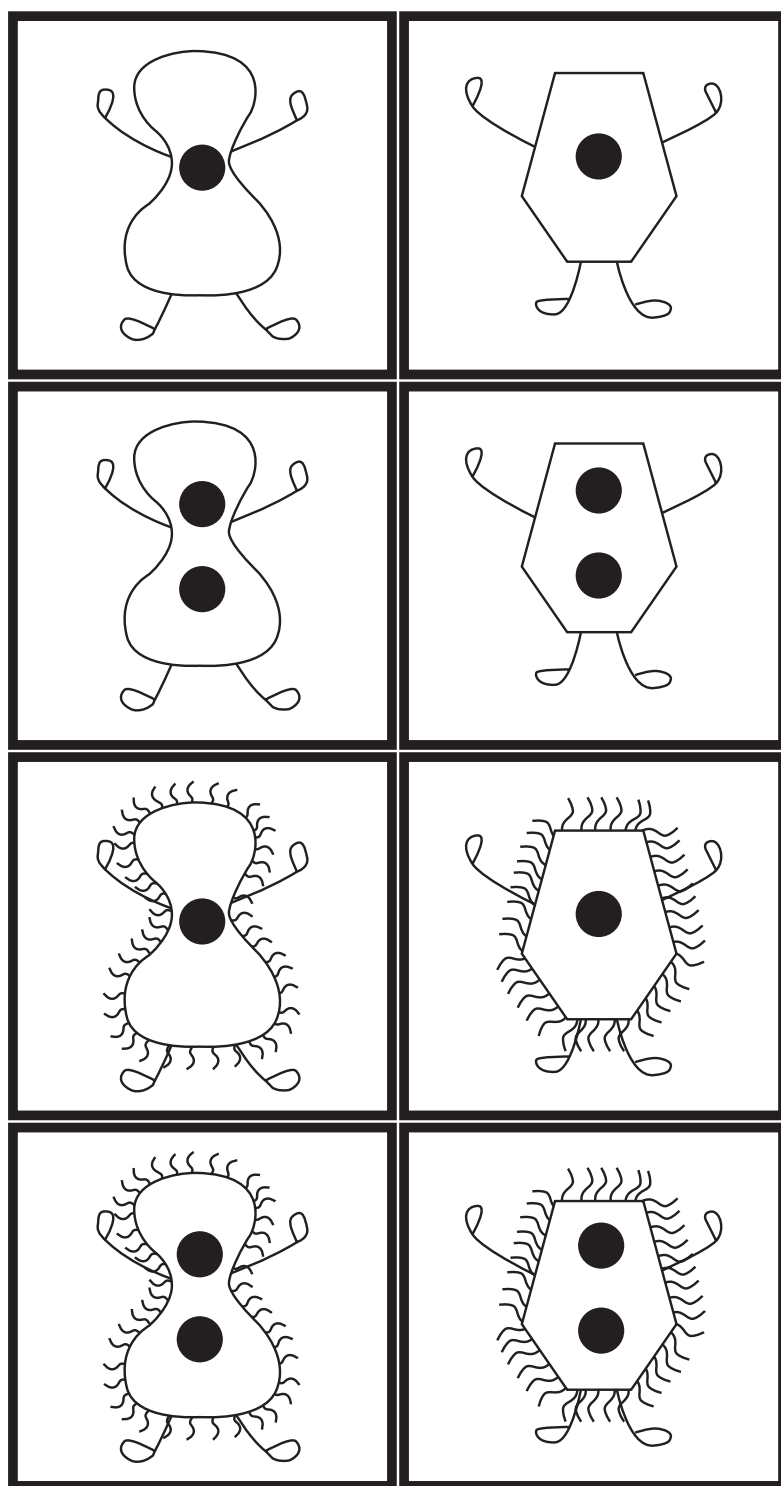
Note: Diagonals are perpendicular or not  
Bisected by the other or not  
Congruent or not

**Properties of symmetry (line and point):**

*Property lists for quadrilaterals—57*



## *Assorted triangles—58*

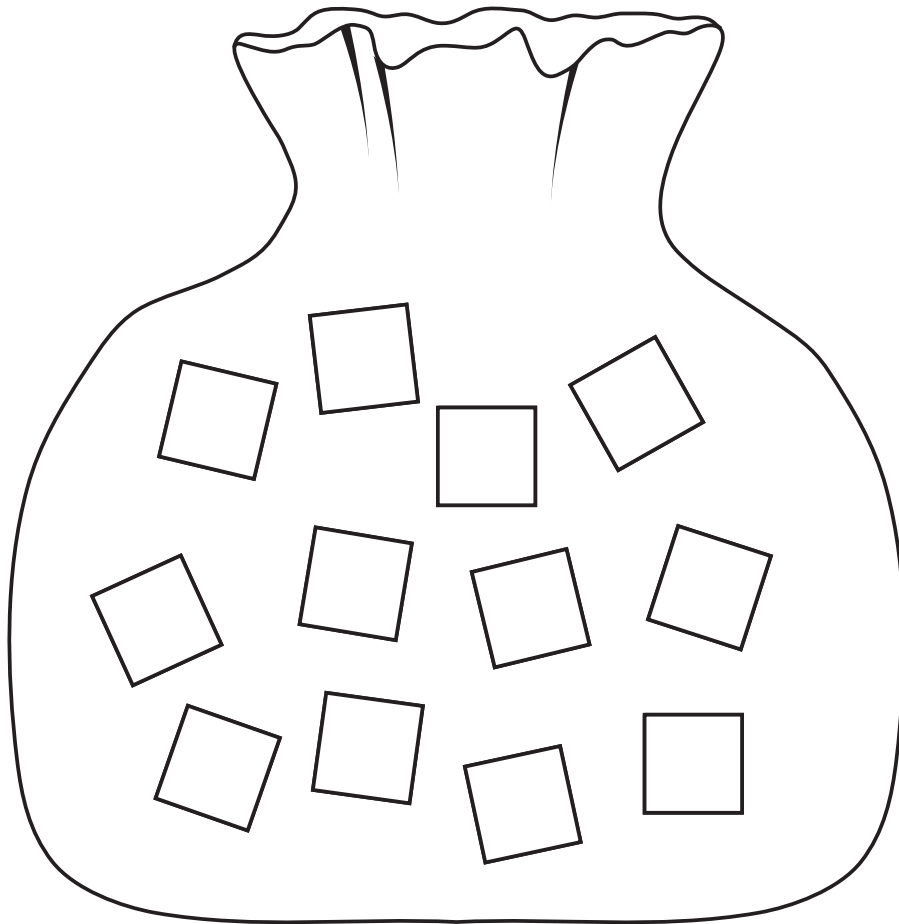


*Woozle cards—59*

# Design a Bag

Name \_\_\_\_\_

Color: ☐



Impossible

Certain



*Design a bag—60*

# What Are the Chances?

Impossible

Certain



0

20



0



0



0



0



*What are the chances?—61*

# Looking at Collections

Name \_\_\_\_\_

## *Collection #1*

Danielle has 72 baseball cards in her collection. She has already put 35 of them into the plastic holders. How many more cards need to be placed in plastic holders?

## *Collection #2*

Timothy collects Matchbox cars and has them on two shelves in his bedroom. He has 24 Matchbox cars in all. On the top shelf he has put 16 of the cars. How many will be placed on the bottom shelf?

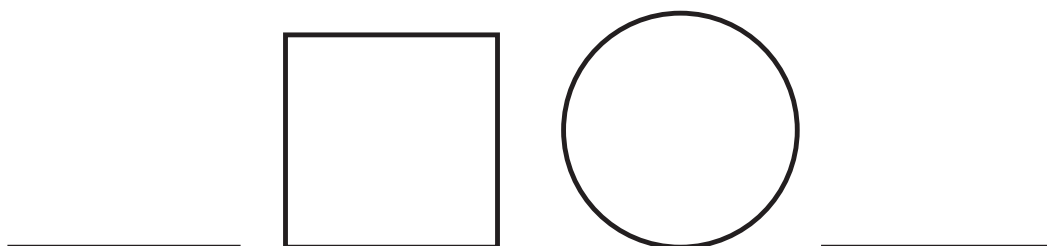
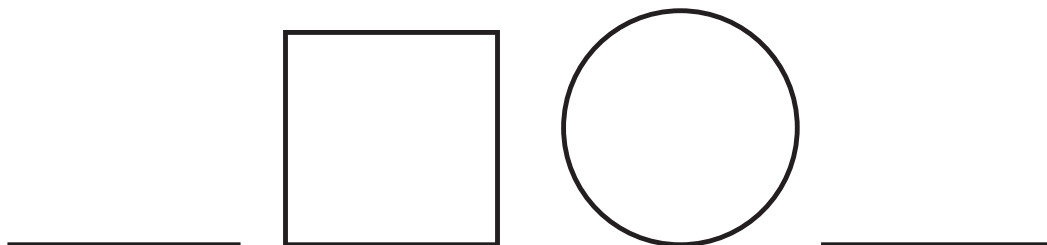
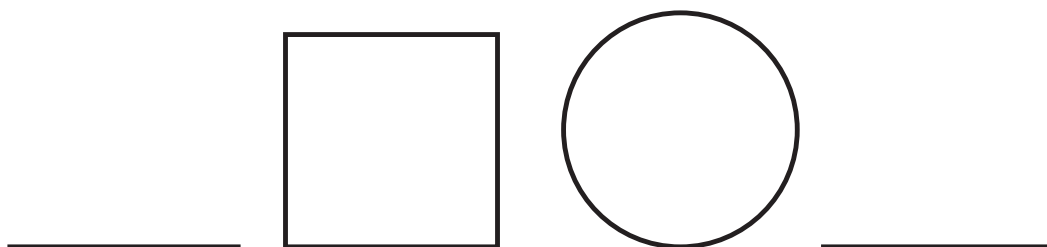
## *Collection #3*

Danielle and Timothy both like to collect state quarters. When they last visited, Danielle had 32 quarters and Timothy had 24 quarters. How many more does Danielle have than Timothy?

*Looking at collections—62*

Name \_\_\_\_\_

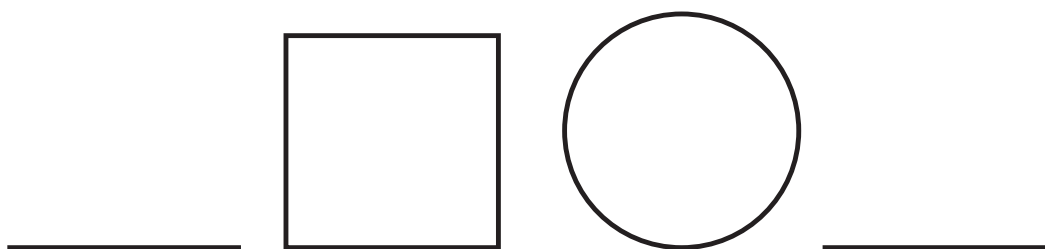
## 2 More Than



*2 more than—63*

Name \_\_\_\_\_

## 2 Less Than



*2 less than—64*



Name \_\_\_\_\_

## How Long?

|   |   |
|---|---|
| <p><b>Object</b> .....</p> <p><b>Estimate</b></p> <p>..... tens ..... ones</p> <p><b>Actual</b></p> <p>..... tens ..... ones</p> <p>.....</p> <p>number word</p> <p>.....</p> <p>number</p> | <p><b>Object</b> .....</p> <p><b>Estimate</b></p> <p>..... tens ..... ones</p> <p><b>Actual</b></p> <p>..... tens ..... ones</p> <p>.....</p> <p>number word</p> <p>.....</p> <p>number</p> |
| <p><b>Object</b> .....</p> <p><b>Estimate</b></p> <p>..... tens ..... ones</p> <p><b>Actual</b></p> <p>..... tens ..... ones</p> <p>.....</p> <p>number word</p> <p>.....</p> <p>number</p> | <p><b>Object</b> .....</p> <p><b>Estimate</b></p> <p>..... tens ..... ones</p> <p><b>Actual</b></p> <p>..... tens ..... ones</p> <p>.....</p> <p>number word</p> <p>.....</p> <p>number</p> |

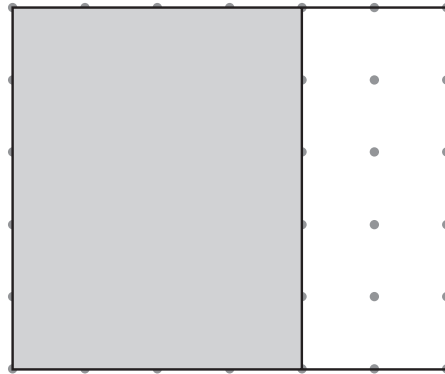
*How long?—65*

Name \_\_\_\_\_

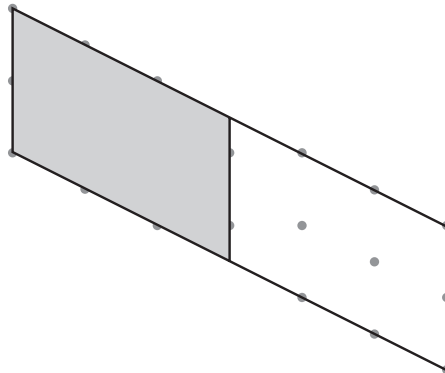
## Fraction Names

Find fraction names for each shaded region. Explain how you saw each name you found.

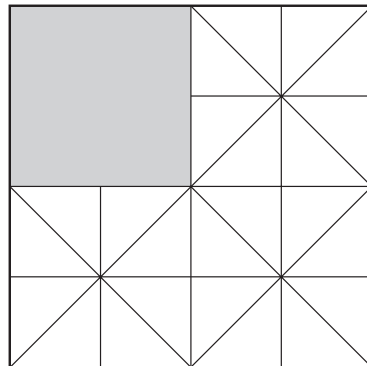
1.



2.



3.



*Fraction names—66*

# Solving Problems Involving Fractions

Name \_\_\_\_\_

Solve these problems. Use words and drawings to explain how you got your answer.

1. You have  $\frac{3}{4}$  of a pizza left. If you give  $\frac{1}{3}$  of the leftover pizza to your brother, how much of a whole pizza will your brother get?
2. Someone ate  $\frac{1}{10}$  of the cake, leaving only  $\frac{9}{10}$ . If you eat  $\frac{2}{3}$  of the cake that is left, how much of a whole cake will you have eaten?
3. Gloria used  $2\frac{1}{2}$  tubes of blue paint to paint the sky in her picture. Each tube holds  $\frac{4}{5}$  ounce of paint. How many ounces of blue paint did Gloria use?

*Solving problems involving fractions—67*

# It's a Matter of Rates

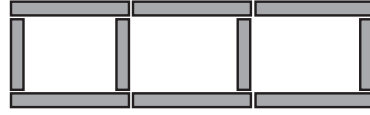
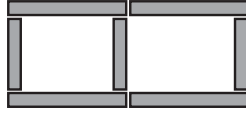
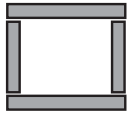
Solve each of these problems. Use pictures and words to show how you solved it.

1. Terry can run 4 laps in 12 minutes. Susan can run 3 laps in 9 minutes. Who is the faster runner?
2. Jack and Jill were at the bottom of a hill, hoping to fetch a pail of water. Jack walks uphill at 5 steps every 25 seconds, while Jill walks uphill at 3 steps every 10 seconds. Assuming a constant walking rate, who will get to the pail of water first?
3. Some of the hens in Farmer Brown's chicken farm lay brown eggs and some lay white eggs. Farmer Brown noticed that in the old hen house, she collected 4 brown eggs for every 10 white eggs. In the new hen house, the ratio of brown eggs to white eggs was 1 to 3. If both hen houses produce the same number of eggs, in which henhouse will there be more brown eggs?
4. The Play-a-Lot Video Game Store charges \$2.00 for every 15 minutes to play on their wide selection of video games. Wired-for-Action Video Store charges \$3.00 for 20 minutes of play on their video games. Where would you choose to go if you were basing your decision on pricing?

*It's a matter of rates—68*

# Windows

Name \_\_\_\_\_



|                      |   |   |    |   |   |   |   |  |    |
|----------------------|---|---|----|---|---|---|---|--|----|
| <b>Step</b>          | 1 | 2 | 3  | 4 | 5 | 6 | 7 |  | 20 |
| <b>No. of sticks</b> | 4 | 7 | 10 |   |   |   |   |  |    |

Describe the pattern you see in the drawing:

---



---



---

Describe the pattern you see in the table:

---



---



---

Use words to describe the rule for finding out how many sticks you need to make any length of window:

---



---



---



---



---

Use numbers and symbols to write an equation for your rule:

---

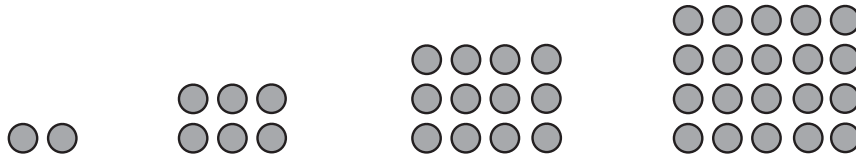


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*Predict how many—69*

# Dot Arrays

Name \_\_\_\_\_



| Step        | 1 | 2 | 3  | 4  | 5 | 6 | 7 | 8 | 9 | ... | 20 |
|-------------|---|---|----|----|---|---|---|---|---|-----|----|
| No. of dots | 2 | 6 | 12 | 20 |   |   |   |   |   | ... |    |

Describe the pattern you see in the drawing:

---



---



---

Describe the pattern you see in the table:

---



---



---

Use words to describe the rule for finding out how many dots you need to make any dot array:

---



---



---



---



---

Use numbers and symbols to write an equation for your rule:

---

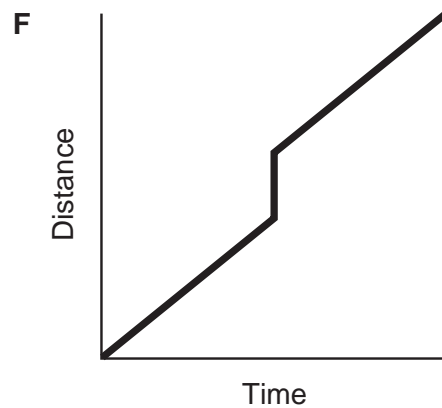
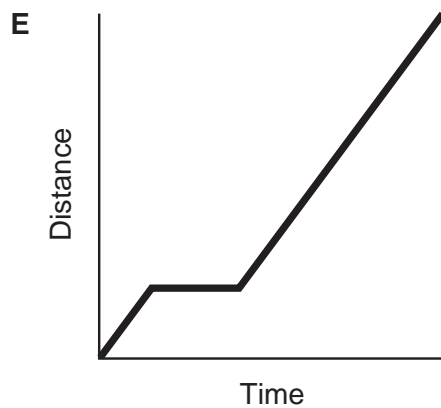
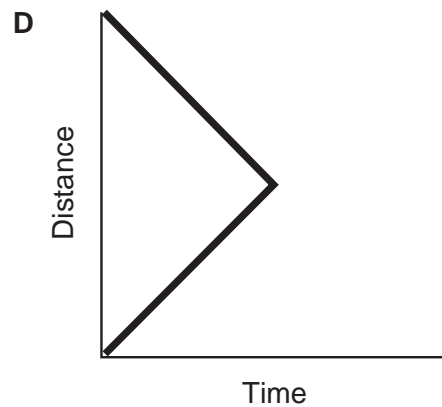
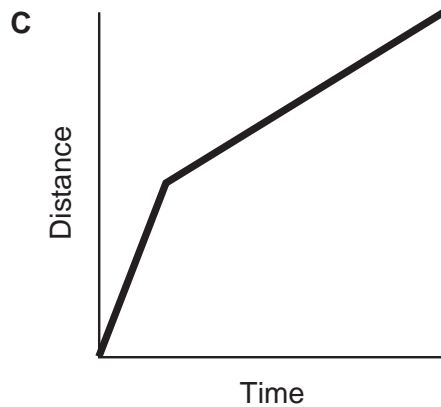
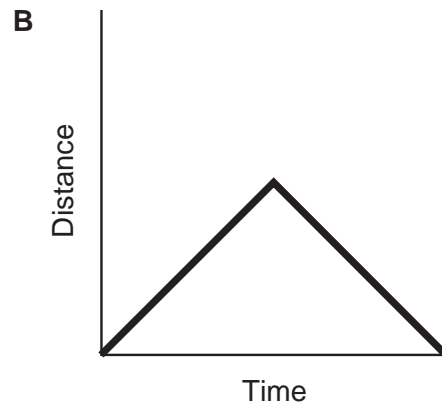
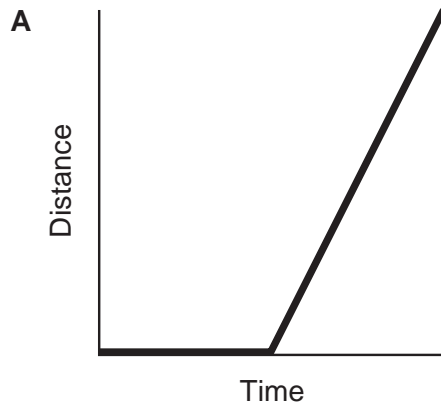


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*Predict how many—70*

# Create a Journey Story

If possible, create a story about a journey that the graph could represent.  
If not possible, explain.



*Create a journey story—71*

# Crooked Paths

Name \_\_\_\_\_



Circle the longer path. If they are the same, circle both.

How we decided: (Draw pictures)

*Crooked paths—72*



# Rectangles Made with 36 Tiles

Name \_\_\_\_\_

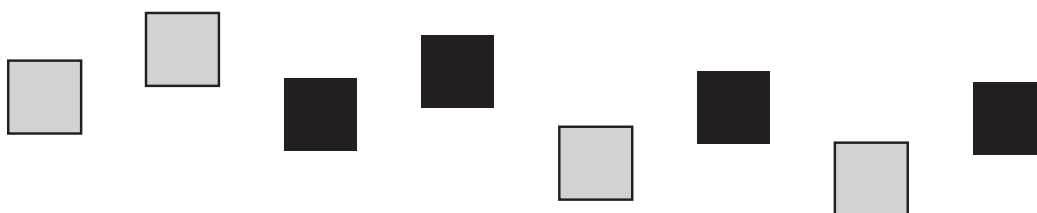
| Rectangle Dimensions | Area | Perimeter |
|----------------------|------|-----------|
|                      |      |           |
|                      |      |           |
|                      |      |           |
|                      |      |           |
|                      |      |           |
|                      |      |           |
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|                      |      |           |
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|                      |      |           |
|                      |      |           |
|                      |      |           |

*Rectangles made with 36 tiles—73*

# Fixed Area Recording Sheet

Name \_\_\_\_\_

| Length | Width | Area | Perimeter |
|--------|-------|------|-----------|
|        |       |      |           |
|        |       |      |           |
|        |       |      |           |
|        |       |      |           |
|        |       |      |           |
|        |       |      |           |
|        |       |      |           |
|        |       |      |           |
|        |       |      |           |



*Fixed area recording sheet—74*

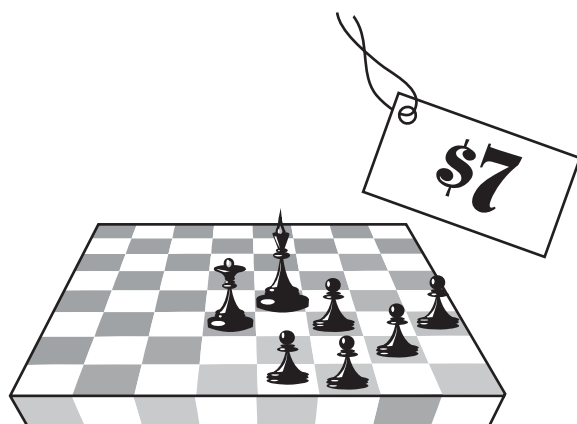
# Properties of Quadrilateral Diagonals

**Name** \_\_\_\_\_

[illegible]

## Properties of quadrilateral diagonals—75

# Toy Purchases



*Toy purchases—76*

# Toying with Measures

Name \_\_\_\_\_

|                   | Mean | Median | Mode |
|-------------------|------|--------|------|
| Original Set of 6 |      |        |      |

**Make predictions based on these changes. Give reasons for your predictions.**

|                       |  |  |  |
|-----------------------|--|--|--|
| Add a \$20 toy        |  |  |  |
| Reasons               |  |  |  |
| Return the \$1 toy    |  |  |  |
| Reasons               |  |  |  |
| Get a free toy        |  |  |  |
| Reasons               |  |  |  |
| Buy a second \$12 toy |  |  |  |
| Reasons               |  |  |  |
| Your change:          |  |  |  |
| Reasons               |  |  |  |

**Calculate the actual statistics for each of the changes.**

|                       |  |  |  |
|-----------------------|--|--|--|
| Add a \$20 toy        |  |  |  |
| Return the \$1 toy    |  |  |  |
| Get a free toy        |  |  |  |
| Buy a second \$12 toy |  |  |  |
| Your change:          |  |  |  |

*Toying with measures—77*

